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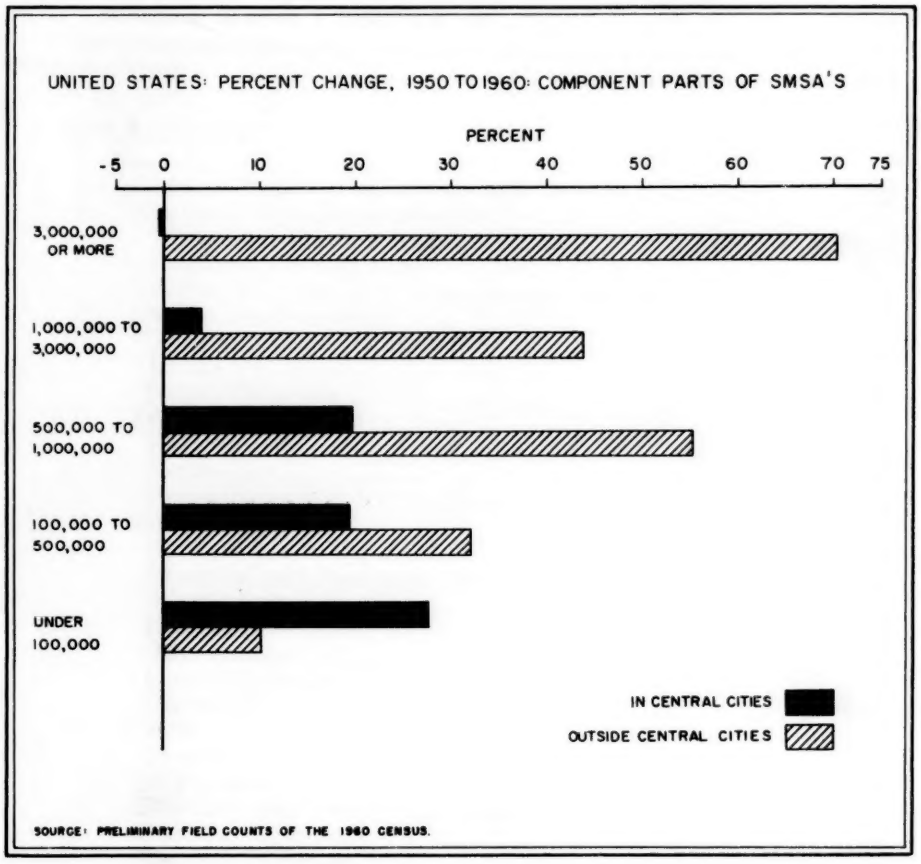

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POPULATION INDEX

Vol. 26 No.4 October, 1960

CONTENTS

CURRENT ITEMS Page

Some Reflections on American Demography in the Nineteen Sixties - Dudley Kirk 305
Metropolitan Growth 310
Erratum 310

BIBLIOGRAPHY

A. General Population Studies and Theory 311
B. Regional Population Studies:
Historical Studies 315
Regional Demography 317
Surveys Containing Demographic Material 319
C. Spatial Distribution:
General Spatial Distribution 320
Urban Patterns 321
Rural Patterns 323
D. Trends in Population Size:
Past Trends 323
Estimates 325
Projections and Predictions 325
E. Mortality:
General Mortality 328
Prenatal and Perinatal Mortality 328
Infant Mortality 328
Mortality at Other Ages 329
Life Tables 329
Mortality by Social and Economic Groups 330
Mortality by Cause 331
F. Fertility and Natural Increase:
General Fertility 333
Differential Fertility 334
Sterility and Other Pathology 334
Fertility Controls 335
Natural Increase 337

(continued overleaf)

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BIBLIOGRAPHY (continued) Page

G. Marriage, Divorce, and the Family:
Marriage and Divorce 337
The Family 338
H. International Migration:
General 339
Settlement and Resettlement 340
Temporary Movements 340
Refugees 340
I. Internal Migration:
General 340
Rural-Urban 341
Settlement and Resettlement 341
J. Characteristics:
Demographic Characteristics 341
Biological Characteristics 342
Psychological Characteristics 343
Economic Characteristics 343
Social Characteristics 345
Ethnic Characteristics 345
K. Demographic and Economic Interrelations:
Demographic Factors and Resources 346
Economic Growth 347
Labor-Force Participation 348
Occupation and Industry 350
Business Fluctuations 351
Economic Dependency 351
Other Economic Variables ..... —
L. Other Interrelations:
Demographic and Social Factors 352
Demographic and Political Factors 353
Demographic and Other Factors 353
M. Policies:
General Population Policy 353
Measures Affecting Fertility 354
Policy on Internal Redistribution 355
Policy on International Migration 355
Policy on Quality 356
N. Methods of Research and Analysis 356
O. Organization and Administration:
Registration of Vital Statistics 357
Population Censuses and Registers 357
Other Data Collecting and Processing 359
P. Professional Meetings and Conferences 359
Q. Bibliographies 362
R. New Periodicals 363
S. Official Statistical Publications 364

Geographical Index 372
Author Index 374

STATISTICS

Life Expectancy ($\mathring{e}_x$) at Various Ages 383

CURRENT ITEMS

SOME REFLECTIONS ON AMERICAN DEMOGRAPHY IN THE NINETEEN SIXTIES

Like so many speakers, I find myself the prisoner of a printed title set before my speech was completely written./1 I was tempted on this occasion to discourse on the more obvious popular images of world population problems dramatized by the zealous in such terms as "the population explosion" or the "population bomb." To my mind, few things are less explosive than large populations. In what other field would a world growth of 1.6 per cent per year be regarded as "explosive"? But it is the imagery, and not the basic concern, with which I disagree.

We professionals, of course, also have our slogans and shibboleths. It had been my original intention to call attention to some of these. For example, I had in mind poking some friendly fun at the fertility cult of our profession — at those of us who feel that the real core of demography is the measurement and interpretation of reproductive change. The very word "fertility" is a password or shibboleth of the demographic profession, and its use is a mark of the professional cognoscenti. Actually it is a word taken by us out of its biological context and assigned a meaning contrary to that of medical practice, and indeed of the Latin languages from which the word was originally borrowed./2 It is a tribute to our doggedness that our usage has come to prevail in the English language. It has become a necessary word in our scientific universe of discourse. At the risk of sounding eccentric, I would hope that we would seek alternatives. A possibility is the word "natality," a more dignified choice, less ambiguous, and a more appropriate companion for the word "mortality." It also has the advantage of being directly translatable into other languages./3 I note the use of "natality" by the National Office of Vital Statistics and hope this may achieve wider currency as a word describing birth performance.

But instead of dwelling further on our foibles, I would like in the next few minutes to direct your attention to our future and to our opportunities as American demographers in the 1960's.

Our Association had its origin in the 1930's in concern about declining and differential natality. The first decade was the most creative and confident of our professional history. Later both our theory and our projective models led us astray. Demographers, of all people, were among the last to recognize that the postwar resurgence of natality was more than a temporary baby boom.

Even in the 1950's we were consistently bearish in a bull market for population, and, like other counselors, we lost some clients in

---

Editor's Note. — This is the text of the address delivered by Dudley Kirk, President of the Population Association, at the banquet on the evening of May 6, 1960, at the Hotel Twenty Four Hundred, Washington, D. C., as part of the annual meeting of the Association. It is hoped that in future we may each year publish the Presidential Address in the October issue of Population Index.

maintaining this position. The achievements of the profession have been more in documenting change than in forecasting it.

But my purpose is not to recapitulate the errors of the past, but rather to urge us to try to think more imaginatively about the future. Let us look for the hints of what may be ahead, now perhaps a cloud no larger than a man's hand. Certainly in the 30's there were hints of the coming changes in natality. This was clearly suggested by the check, and indeed reversal, of the long-time downward trends in the midst of a severe economic depression. But we lacked the vision to see it./4

If we could see through the eyes of the little people from Mars, who keep us under surveillance from time to time from their flying saucers, I wonder what demographic developments in this country would seem most significant. I suspect we would be most impressed by the enormous population redistribution occurring in the United States. Our Martian friends were probably never taken in by the "center of population" concept, which pictures the center as drifting westward through the cornstalks of Indiana and Illinois. They would recognize that this did not represent a continuation of the westward movement in the historical sense, but a reflection of the special attractions of California and neighboring states. If present trends continue, California will replace New York as the leading state of the Union in the next few years. But from this high overview, our space visitor would have no doubt that the meaningful center of population is, and will continue to remain, in the Northeast and especially New York, as it has since the year 1800. Incidentally, it was an astronomer, J. Q. Stewart, who first brought this to our attention in quantitative terms.

Everywhere we see the growing place of the metropolis and suburbia in our national life. Perhaps the single most significant demographic series in the whole armamentarium of American population statistics is represented by the following: two generations ago, in 1900, the median American lived in the countryside; by 1930 he lived in a small town of 5,000-10,000 population. Today he lives in a metropolitan area, increasingly in the suburbs, and the country-dweller today is as much in touch with world events and cultural innovation as the city-dweller of yesterday. It is difficult to overstate the revolution this has meant in the average American's way of life. The nation may well turn to demographers for clues as to what the future holds in this regard.

It may be that the 1960's will see the transition from metropolis to regional megalopolis, as now frequently discussed and as predicted by Oswald Spengler forty years ago. Conversely, the depopulation of the countryside is exceeding even the tempo forecast by Spengler. The 1960 census will show that much of the physical area of the United States is losing population, in some cases at truly shocking rates, paralleling and extending the experience in 1940-1950. I have in mind, for example, the decline in the rural farm population of Oklahoma. Over half of this population deserted their farms in the single decade 1940-1950. The next decade may well prove the hypothesis that the American family farmer is a vanishing American, and that the type of rural life he represents, often described as the backbone of Jeffersonian democracy, has become only a matter of history.

In this situation, it behooves demographers to give very careful thought to what concepts should appropriately replace the historical

distinctions between urban and rural and between farm and nonfarm. The depopulation of the countryside is now being partly met by a great invasion from the cities for summer and part-time residence. There is an obliteration of traditional rural-urban differences. In fact, is it possible that within the foreseeable future the very concept of unilocal residence may have to be re-examined? Multiple and seasonal residence, while not now statistically of great importance, is a rapidly growing pattern. An offsetting feature to frequent changes of residence, whether determined by season, by occupation, or by family life-cycle, is the growing possibility of changing occupation without change of residence, through new patterns of long-range commuting. We are only beginning to measure, much less evaluate, the significance of these changes.

The study of internal migration is the stepchild of demography. Too little attention has been given by the leadership of our profession to the theory and measurement of migration, despite its role as the chief determinant of differences in population change and structure among local populations, and indeed now for many states. In the words of one leading authority in this field, the majority of recent migration studies are "planlessly empirical and trivial in content." This is a harsh judgement. The study of migration presents peculiar problems in terms of definition and complexity, but I feel confident that the application of the technical virtuosity so evident in the field of natality could yield great progress. It is our responsibility as demographers not to ignore the crucial problems because the data do not lend themselves readily to pat generalizations or to neat mathematical models. It is in this area of migration, with its complex variables of origin, destination, distance, and time, that the new computers may make the greatest contribution to demographic analysis.

It is my impression that the study of migration differentials has made very little progress in the past thirty years, despite the fact that this, much more than any other demographic variable, is changing the distribution and characteristics of local population. To take a single example, what have been the effects on the State of Arkansas of the fact that close to half the people born in that State have left her boundaries? Who left or stayed? Is it possible to judge what some of the social implications are?

This leads me to reflect briefly on what is sometimes called the homogenization of the American population, which is occurring as the result of migration on the one hand, and of mass media on the other. Will the 1960's see continuing convergence of regional, class, perhaps even of racial, differences in population characteristics? To what extent are there counterforces, such as the increasing school segregation by religion? Many observers see a trend toward greater mobility in our population, particularly insofar as its leadership is concerned. Fewer and fewer remain in their community of birth. The ties of family and local community grow weaker. Are we becoming a single national community, in which regional and class differences and loyalties are being progressively dissolved? Our profession is in a key position to provide some of the answers.

Or let us turn to the "heartland" of demography — the field of reproduction. I predict that the 1960's will see a growing disenchantment with intensive studies of individual attitudes in relation to family size./5

I suspect that greater emphasis in the future will be placed on studies of what people do rather than on what they say they think. For better or worse, much of what we want to know about the motivations and behavior affecting natality is possible only in studies that may violate some of the more conservative proprieties. More than in the past, our information may come from projects involving action research. Before the end of the decade demographers will certainly have the opportunity to evaluate the effects of more efficient methods of family limitation, probably of several new types.

If the present levels of birth rates by age are maintained, we can expect a rise in the general birth rate in the 1960's. It is in this decade that the larger baby crop of the 1940's will come into the most marriageable and reproductive ages. I would hope that in the '60's there will not only be a continuing attention to the factors that may influence the validity of this projection, but even more to what this new wave of children may mean to this country. There are effects on schools. But I have in mind more broadly ranging problems, for example, the micro-demography of the family unit and the family life-cycle. Earlier marriage, earlier childbirth, and larger family size affect far more than national population growth and the vague relationships between people and resources. These are changes that directly affect the size, composition, and functions of the most important unit of our social structure.

Or again, like Joseph Spengler, I am greatly concerned about what he calls the esthetic effects of the coming increase in numbers. In this country it is not primarily an economic problem, but a problem of the quality of life. As a Californian in origin, I have perhaps seen the effects of rapid population growth at closer range than people from some other areas of the country. We have had an average growth rate of 3.7 per cent per year sustained with few interruptions for over a century. Population growth has not meant a deterioration of material living standards. They are among the highest in the world. But what happens to the quality of life when the mass-produced suburb engulfs the land and the asphalt tentacles of the freeways reach out and destroy the natural beauty of the countryside? The fresh air of California is poisoned not by the belching smokestacks of factory and forge, but by the fumes of private automobiles, themselves the distinctive hallmark of material opulence in the Western world. California was a pleasanter place with a smaller but less opulent population.

I have not mentioned the field of mortality. This branch of our profession suffers from the very excellence of its performance. It has not been the squeaky wheel and therefore has not always had the attention and praise its performance merits. It too has its challenging problems, on which I would like to expound were time available.

Nor have I spoken of the study of population quality. Hopefully, in the coming decade we will overcome some of our prejudices against the study of the implications of differential natality among different segments of our population. The prejudices spring from the resistance to racist and other unscientific conclusions advanced by biased observers a generation ago. We have overcompensated, and it is time to take a new look. The quality of our population is certainly as important and legitimate an area of inquiry as its quantity.

I come to a summing up. I've tried to suggest a few areas in which demographers may make important contributions in identifying and predicting social trends that may affect, or even threaten, our national well-being. There are few quick or easy answers. But society has a right to expect us to produce at least some of the answers.

The study of population is at once a body of data, a methodology, and a bundle of generalizations concerning the causes and consequences of demographic phenomena. Members of our profession have been entrusted with obtaining the inventory and maintaining the books of the national population accounts. Those responsible for the gathering of census data and of other population data are active members of this Association. They are in a sense our hosts at this meeting. Too often their work goes unappreciated by other social scientists, whose needs they have tried so hard to serve — often in the face of administrative pressure and public censure. I would like to take this opportunity to pay tribute to their work.

In methodology we have made brilliant contributions in evaluating and analyzing data. Also, of course, demographers are incorrigible model builders, and were so long before this became the rage in other social sciences. The new generation of demographers, with their better grounding in mathematics and statistics, should certainly outdo their professional antecedents in this regard.

But I hope that, more than in the recent past, we shall not only measure, but study the significance of, demographic changes in American life. This is the tradition in which the Association was founded and which contributed so much to public thinking in the 1930's. Later, and quite naturally in view of our earlier mistakes, the focus of professional effort changed to the causes and away from the consequences of demographic changes. I hope that in the 1960's the pendulum will swing back. I hope that we will again assume the responsibility for interpreting the larger implications of population changes, to our scientific colleagues, to the public, and to those responsible for national policy.

FOOTNOTES

1. The announced title was "Population Shibboleths of 1960."

2. In French, for example, the word fertilité refers to the capacity to conceive, fécondité to birth performance. In English demographic usage the meanings of the words have been arbitrarily reversed.

3. e.g. French, natalité; Spanish, natalidad; Italian, natalità.

4. There is a common assumption that natality was low in the 1930's because of the depression. The causal connection has not been adequately demonstrated. Actually after 1934 natality was continuously higher than would have been expected with a projection of trends during the prosperous 1920's. It is true that there is a close correlation between business conditions and the relatively minor year-to-year fluctuations in natality. But there is no convincing evidence that basic trends in natality and size of family are a function of business

cycles. Indeed the popular idea (among demographers as well as others) that a depression would inevitably be followed by a comparable drop in natality should not be accepted unquestioningly. There is some evidence to the contrary. (cf. Dudley Kirk and Dorothy L. Nortman. Business and babies: the influence of business cycles on birth rates. Proceedings of the Social Statistics Section, American Statistical Association, 1958, pp. 151-160.)

5. I do not mean that this important middle term will be ignored, but rather that more attention will be given to general cultural norms on the one hand and to actual behavior on the other.

METROPOLITAN GROWTH The following advance data, received in a communication from the U. S. Bureau of the Census, September 27, 1960, are the basis of the cover chart.

Population of Standard Metropolitan Statistical Areas by Size: 1960 and 1950 (Based on preliminary field count)

Size and component parts of SMSA	1960	1950	Increase 1950-1960 Number	Percent
3,000,000 or more				
Central cities	17,626,869	17,655,217	-28,348	-0.2
Outside central cities	13,860,735	8,133,750	5,726,985	70.4
1,000,000 to 3,000,000				
Central cities	12,530,408	12,037,125	493,283	4.1
Outside central cities	17,001,666	11,820,988	5,180,678	43.8
500,000 to 1,000,000				
Central cities	9,699,611	8,092,551	1,607,060	19.9
Outside central cities	8,827,626	5,680,057	3,147,569	55.4
100,000 to 500,000				
Central cities	16,019,213	13,448,800	2,570,413	19.1
Outside central cities	14,318,095	10,834,663	3,483,432	32.2
Under 100,000				
Central cities	1,289,824	1,010,208	279,616	27.7
Outside central cities	408,515	370,630	37,885	10.2

ERRATUM In the April 1960 issue of Population Index the last two lines on p. 187 in the table, Reproduction rates and intrinsic vital rates, are in error. The correct figures are given below.

Country	Date of Fertility Rates	Date of Life Table	Reproduction Rate Gross	Net	Intrinsic Rate (per 1,000 females) Natural Increase
France	1956	1956	1.30	1.25	7.9
	1957	1957	1.32	1.26	0.8
	1958	1958	1.31	1.26	0.8

Source: Institut National de la Statistique et des Etudes Economiques. Etudes Statistiques: Supplément Trimestriel du Bulletin Mensuel de Statistique, No. 4., Oct.-Dec. 1959. P. 318.

BIBLIOGRAPHY

This bibliography is compiled principally from publications available to the editors or cited in the literature. Selection is on the basis of intrinsic merit, current interest, and paucity or richness of the literature for the various areas and problems. Coverage is less complete in peripheral fields, selection less rigid in underdeveloped areas. The major resources utilized in addition to those of the Office of Population Research are the current acquisitions of the Princeton University Library, the New York Public Library, the United Nations Headquarters Library, and the Library of the New York Academy of Medicine.

The editors acknowledge the generous cooperation of the staff of the New York Public Library, and especially that of the Economics Division, in making the numerous excellent facilities of the Library available to them. The coverage of official publications of national governments is facilitated by accession lists and occasional other aid from several government agencies.

The basis of the subject classification in this bibliography was described in the January 1955 issue of Population Index, pages 21 to 27. Regularly recurring compilations of official statistics that have been listed in the bibliographies of the United Nations Demographic Yearbook are not normally covered here. English translations of titles and abstracts have been made by the editors. Titles contributed by individuals other than the editors are acknowledged by placing the name of the contributor in brackets at the end of the entry. If a translation or annotation is taken from a secondary source, that source is also cited in brackets. The titles of items not seen by the editors are marked with the symbol °.

A list of the sources used in the preparation of this bibliography appears with the cumulative index for Volume 25. The following abbreviations are used for the bibliographical sources quoted in the annotations of this issue:

B.S.P. - Bulletin Signalétique. Philosophie.
C.G.P. - Current Geographical Publications. (American Geographical Society.)
E.E.A.I. - East European Accessions Index. (U. S. Library of Congress.)
E.H.R. - Economic History Review.
E.Q. - Eugenics Quarterly.
F.S. - Fertility and Sterility.
P.R.T. - Population: Revue Trimestrielle.
S.E.S. - Social and Economic Studies. Mona. Jamaica.

The further development of the bibliography as a contribution to international demographic research requires the cooperation of scholars throughout the world. The editors welcome exchange relationships with institutions, reprints of research contributions, and citations to fugitive studies or those in non-Western languages.

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4001 Bergues, Hélène, et al.
La prévention des naissances dans la famille. Ses origines dans les temps modernes [Birth control in the family. Its origins in modern times]. Institut National d'Etudes Démographiques, Cahiers de Travaux et Documents, No. 35. Paris, Presses Universitaires de France, 1959. 400 pp.
For an extended note on this work by Alfred Sauvy, see Population 15(1):115-120. Jan.-March 1960. The first part consists of a systematic review of the literature, including indirect references, bearing on contraceptive practice in France in the eighteenth century. The second part consists of five interpretative essays:
Ariès, Philippe. Interprétation pour une histoire des mentalités.
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Sutter, Jean. Sur la diffusion des méthodes contraceptives.
Henry, Louis. L'apport des témoignages et de la statistique.
Sauvy, Alfred. Essai d'une vue d'ensemble.

4002 Braudel, Fernand.
La démographie et les dimensions des sciences de l'homme [Demography and the

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Cours de démographie, rédigé d'après les notes et avec l'autorisation de Léon Buquet. Licence 4e année, 1958-1959 [Course in demography, based on the notes and with the authorization of Leon Buquet. Fourth year degree, 1958-1959]. Paris, Cours de Droit [1959]. 246 pp.°

4004 Chesneaux, Jean.

Un prémalthusien chinois: Hong Liang-Ki [A Chinese Malthus: Hong Liang-Ki]. Population (Paris) 15(1):89-94. Jan.-March 1960.

A biographical note and translation into French of six excerpts from the writings of a Chinese sage of the Manchu period. Commentary by A. S., p. 95. See also Title 4038, this issue.

4005 Chiaro, Adolfo del.

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4017 Japan. Welfare Ministry. Institute of Population Problems.

Annual reports of the Institute.... Tokyo, [1956]-. In Japanese with English titles and summaries.

No. 2, 1957. 1957. 77 pp. [For citations of papers in this volume see Titles 4127, 4138, 4140, 4205, 4237, 4262, 4269, 4284, 4334, 4339, 4406, 4416, and 4466, this issue].

No. 3. See 25:Title 1056.

No. 4, 1959. 1959. 92 pp. [For citations of papers in this volume see Titles 4021, 4056, 4215, 4253, 4249, 4263, 4300, 4306, 4313, 4340, 4398, 4407, and 4409, this issue].

4018 Kelly, George A.

Overpopulation: a Catholic view. New York, Paulist Press, May 27, 1960. 96 pp.

"...an attempt to examine the problem of the world's increased numbers calmly within the framework of sociology and religion." Contents: What is the population problem? What can be done about it? Increasing our resources; Population measures; A program for Christians.

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"The present article purports to comment on the static interpretation of regionalism and to emphasize the necessity of dynamic approach to regionalism and further to make clear the position and functions of demography in the above connection." Applications to the Japanese experience.

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For citation of Vol. I, see 23:Title 4007.

4023 Lestapis, S. de, S. J.

The Catholic position as regards the problem of population. Migration News (The Hague) 9(2):20-22. March-April, 1960.

Translation of article from the September 1959 issue of Familles dans le Monde,

organ of the International Union of Family Organizations in Paris.

4024 Malthus, Thomas R.
On population; three essays [by] Thomas Malthus, Julian Huxley [and] Frederick Osborn. A Mentor book, MD 295. [New York], New American Library, [1960]. 144 pp.
The essays: Malthus's A summary view of the principle of population, 1830; Huxley's World population [see 22:Title 4319]; Osborn's Population: an international dilemma [see 24:Title 3034].

4025 Medawar, P. B.
The future of man. The BBC Reith Lectures1959. London, Methuen, 1960. 128 pp.
"In the most general terms, the questions I have in mind are these: can man go on evolving in the future as he has evolved in the past, or is there some good reason why his evolution should now have come to an end? What are the evolutionary forces acting on men today, and how far can we predict their effects?" Chapters: The fallibility of prediction; The meaning of fitness; The limits of improvement; The genetic system of man; Intelligence and fertility; The future of man.

4026 Milbank Memorial Fund.
Population trends in Eastern Europe, the USSR and Mainland China. Proceedings of the thirty-sixth annual conference of the Milbank Memorial Fund, held November 4-5, 1959, at the Carnegie Endowment International Center. New York, 1960. 336 pp.
For citations to individual papers see Titles 4064, 4070, 4077, 4097, 4143, 4152, 4421, 4422, and 4464, this issue.

4027 Mortara, Giorgio.
Economia della popolazione. Analisi delle relazioni tra fenomeni economici e fenomeni demografici [Economics of population. Analysis of the relations between economic phenomena and demographic phenomena]. Trattato Italiano di Economia, Vol. III. Turin, Unione Tipografico-Editrice Torinese, 1960. XVI, 514 pp.
After an introduction on the purposes and methods of demography the analysis is divided into three parts on: (1) economic aspects of the human life cycle and their statistical description; (2) influences of demographic factors on economic factors; (3) influences of economic factors on demographic factors. An epilogue discusses reciprocal influences of the two sets of factors, with special reference to demographic and economic projections. Statistical illustrations from Italian experience.

4028 Mortara, Giorgio.
Les études démographiques au Brésil; tirage à part [Demographic studies in Brazil: separate reprint]. Translated from the Portuguese by Jean L. Marfaing. Decimalia. Rio de Janeiro, Ministerio de Educação e Cultura, Biblioteca Nacional, 1959. 19 pp.°

4029 Mourant, A. E.
Blood groups in the study of human populations. Eugenics Quarterly 52(1):7-18. April 1960.

4030 Nevett, Albert, S. J.
The population dilemma. A Sword of the Spirit Pamphlet. Hinckley, Leicestershire, England, Samuel Walker, Oct. 1959. 54 pp.

4031 Penrose, Lionel S.
Outline of human genetics. Contemprary Science Books. London, Heinemann, and New York, John Wiley, 1959. 146 pp.
"The basic facts and principles of human genetics..." [E. Q. 7(2)].

4032 Perez, Bernardino A.
Problems of developing urban and rural definitions for Philippine population statistics. Philippine Statistician (Manila) 8(3): 185-194. Sept. 1959.

4033 Petersen, William.
The demographic transition in the Netherlands. American Sociological Review 25(3):334-347. June 1960.
An examination of data, including work by Dutch sociologists and historians, on regional and class differences in changes in natural increase, mortality, and fertility since the seventeenth century.

4034 Roberts, J. A. Fraser.
An introduction to medical genetics. 2d ed. London, New York, Oxford University Press, 1959. 263 pp.
"The book, which developed from courses of lectures for medical students, can be used by physicians or students who have no previous knowledge of genetics." [E. Q. 7(2)]

4035 Roessingh, H. K.
Historisch-demografisch onderzoek [Historical-demographic research]. Vereniging voor Demografie, Publication No. 5. The Hague, 1959.
A general survey about the problems involved in such research. [R. E. M. P. Bulletin 8(2)]

4036 Rosset, Edward.
Proces starzenia sie ludnosci: studium

demograficzne [The process of the aging of a population; a demographic study]. Warsaw, Polskie Wydawn. Gospodarcze, 1959. 763 pp.

An attempt to generalize the state of current knowledge on the world scale, including means of measurement, incidence, the influence of technical-economic and demographic factors, and the special problems of the aging of the active population. [P. R. T. 15(1)]

4037 Sauvy, Alfred.
Evolution recent sur le surpeuplement [Recent developments concerning overpopulation]. Population (Paris) 15(3):467-484. June-July 1960.

Re-examination of the concept as applied to highly developed countries, taking into consideration not only the rhythm of growth but age structure, geographical distribution, mobility, and cultural habits. Discussion also of complexities in the case of less developed countries.

4038 Silberman, Leo.
Hung Liang-Chi: a Chinese Malthus. Population Studies 13(3):257-265. March 1960.

Biographical essay, appraisal of modern influence, and presentation of an English translation of five essays (on a peaceful reign, on livelihood, on the world, on fate, and on longevity and early death). See also Title 4004, this issue.

4039 Taeuber, Irene B.
Japan's demographic transition re-examined. Population Studies 14(1):28-39. July 1960.

A revision of a paper presented at the annual meeting of the Population Association of America, 1959. For abstract see Population Index 25(3):200. July 1959.

4040 Thompson, J. W.
Genetics, social structure, intelligence and statistics. British Journal of Sociology 11(1):44-50. March 1960.

A review of the controversy between the environmental point of view represented by Jean Flood and A. H. Halsey and the genetic point of view represented by Sir Cyril Burt.

4041 United Nations. Population Commission.
Tenth session. Summary record of the ... meeting held at the Palais des Nations, Geneva, on .... E/CN.9/SR.129-143. 15 June 1960. [New York, 1960]. Variously paged, processed.

Summaries of the meetings held February 9-18, 1959.

4042 Waddington, C. H.
Evolutionary systems — animal and human. Eugenics Review 52(1):23-29. April 1960.

4043 Westoff, Charles F., et al.
The concept of social mobility: an empirical inquiry. American Sociological Review 25(3):375-385. June 1960.

"In this paper, we briefly survey current attempts to deal with the concept of social mobility and offer an alternative approach in the form of a comprehensive statistical analysis of 22 variables presumably measuring different aspects of social movement."

4044 Williams, Roger J.
Why human genetics? Journal of Heredity 51(2):91-98. March-April 1960.

"The most important task of human genetics is to gain understanding of the potentialities of human genotypes so as to make possible the intelligent 'manipulation' of the environment."

[See also Titles 4093, 4098, 4099, 4106, 4108, 4125, 4320, 4333, 4379, 4387, 4391, 4395, 4428, 4435, 4442, 4452, 4513, 4527, 4530, 4531, 4533, 4539, 4543, 4551, 4552, 4554]

B. REGIONAL POPULATION STUDIES

Historical Studies

4045 André, Jacques.
Densité et répartition de la population en Vénétie romaine [Density and distribution of the population in Roman Venetia]. Annales de Bretagne (Rennes) 67(1):103-106 and folding map. March 1960.

4046 Borah, Woodrow W., and Cook, Sherburne F.
The population of central Mexico in 1548: an analysis of the Suma de visitas de pueblos. Ibero-Americana, 43. Berkeley and Los Angeles, University of California Press, 1960. 215 pp. and 4 folding maps.

A study of the chief source of central Mexican population estimates before the surveys of 1560-65. Demographic interpretation of the varied data and an explanation of apparent discrepancy between earlier and later population figures. See also Title 4048, this issue.

4047 Chmura, Julian.
Problem sily roboczej w rolnictwie Kro-

lestwa Polskiego przed uwlaszczeniem [The problem of agricultural manpower in Congress Poland before enfranchisement]. Warsaw, Panstwowe Wydawn. Naukowe, 1959. 314 pp.°

4048 Cook, Sherburne F., and Borah, Woodrow W.
The Indian population of central Mexico, 1531-1610. Ibero-Americana, 44. Berkeley and Los Angeles, University of California Press, 1960. 109 pp.°
See also Title 4046, this issue.

4049 Cousens, S. H.
Regional death rates in Ireland during the Great Famine, from 1846 to 1851. Population Studies 14(1):55-74. July 1960.
An evaluation and summary of the data on excess mortality by county available in the 1851 census records correlated with four external sources.

4050 Durand, John D.
The population statistics of China A.D. 2-1953. Population Studies 13(3):209-256 and folding diagram. March 1960.
A summary and critique of data available in Western languages on the size and composition of the population of China by dynastic periods, and a presentation of an emended series of statistics, A.D. 2-1953. Appendix presents statistics by provinces and a bibliography.

4051 Gonnet, P.
Épidémies et société au XIXe siècle. Le cas de la Côte-d'Or et de Dijon [Epidemics and society in the nineteenth century. The case of the Côte-d'Or and Dijon]. Annales de Bourgogne (Dijon) 31(2):111-120. April-June 1959.
Detailed summary of data from local records on the mortality from cholera during the epidemic of 1832, correlated with demographic and economic characteristics of the victims and of the total population.

4052 Johnson, James H.
Population movements in County Derry during a pre-famine year. Pp. 141-162 in: Proceedings of the Royal Irish Academy, Vol. 60, Section C, No. 3, 1959.°

4053 Ladurie, Emmanuel L.
Climat et récoltes aux XVIIe et XVIIIe siècles [Climate and harvests in the seventeenth and eighteenth centuries]. Annales: Economies, Sociétés, Civilisations (Paris) 15(3):434-465 and folding diagram. May-June 1960.

4054 Lewis, E. D.
The Rhondda Valleys, a study on industrial development from 1800 to the present day. London, Phoenix House, 1959. 312 pp.
"... the Rhondda Borough Council has sponsored this history of the industrialization of the twin Rhondda Valleys ... which formed the principal coal-mining area of South Wales between 1860 and 1914." The interrelations of labor-force growth and of migration to and from the coal fields is discussed. [J. E. H. 20(2)]

4055 Mahler, Raphael.
[Jews in old Poland in the light of figures.] Warsaw, 1958. In 2 vols. In Yiddish.
For a review article by Ariel Tartakower, discussing this work, see Jewish Journal of Sociology 2(1):110-114. June 1960.

4056 Minakawa, Yuichi.
[A demographic observation of a small village in the Tohuku area.] Pp. 45-51; English summary, pp. 87-88 in: Japan. Welfare Ministry. Annual reports of the Institute of Population Problems, No. 4. Tokyo, 1959. 92 pp.
A report on demographic and socio-economic characteristics of the population of Araki village, based chiefly on the analysis of family registers in the tenth year of the Meiji period (1877). Data also on patterns of mortality, fertility, nuptiality, and family size.

4057 Mookherji, Sudhansu B.
Indians in Mauritius (1842-1870). India Quarterly (New Delhi) 15(4):367-381. Oct.-Dec. 1959.
History of governmental regulation of the migration of indentured labor into the British colony. Statistics.

4058 Nordström, Olof.
Befolkningsförskjutningar i Sverige 1805-1950 [Population shifts in Sweden 1805-1950]. Pp. 123-132 in: Svensk Geografisk Årsbok, Årg. 35. Stockholm, 1959. German summary.°

4059 Pressnell, L. S., Editor.
Studies in the Industrial Revolution presented to T. S. Ashton. London, University of London, The Athlone Press, and Fairlawn, N. J., Essential Books, 1960. 350 pp.
Partial contents:
Chambers, J. D. Population change in a provincial town: Nottingham 1700-1800.
John, A. H. The course of agricultural change 1660-1760.

4060 Saharouni, Suren.
On the origin of the Armenians. Arme-

nian Review 13(1):55-78. May 1960.

A reconstruction, in the light of recent research, of the successive ethnic distributions and migrations from prehistoric times to the present.

4061 Sekiyama, Naotaro.
Nihon no jinko [Population of Japan]. Tokyo, 1959. 230 pp.

A historical study of vital statistics and population problems mainly in the Tokugawa period. [Perkins Oriental Books. Kyoto List, No. 30:13].

4062 Utterström, Gustaf.
Jordbrukets arbetare. Levnadsvillkor och arbetsliv på landsbygden från frihetstiden till mitten av 1800-talet [The agricultural laborers. Living and working conditions in rural Sweden from 1720-1850]. Stockholm, Tidens Förlag, 1957. In 2 vols. 898, 527 pp.

The two final volumes in a 12-volume history of the Swedish working classes sponsored by the Swedish trade unions, providing "a collection of primary information and ... a guide to recondite source materials for a crucial phase of Swedish economic history." The long-run and short-run determinants of population growth are discussed. [E. H. R. 20(2)]

4063 Vielrose, Egon.
Historická demografie Polska [Demographic history of Poland]. Demografie (Prague) 2(2):124-133. 1960. Russian and English summaries.

Discussion of methodology and summary of data on the development of Poland's population from the tenth to the eighteenth centuries.

[See also Titles 4001, 4004, 4022, 4033, 4038, 4039, 4085, 4096, 4098, 4103, 4135, 4152, 4298, 4299, 4302, 4303, 4306, 4317, 4323, 4362, 4364, 4370, 4403, 4495, 4561]

Regional Demography

4064 Aird, John S.
The present and prospective population of Mainland China. Pp. 93-133 in: Milbank Memorial Fund. Population trends in Eastern Europe, the USSR and Mainland China. New York, 1960. 336 pp. Discussion on pp. 134-140.

"This paper will try to show that the demographic data of Mainland China are substantially in error, that the population was undercounted in 1953-1954 and has been underregistered since, and that the State Statistical Bureau knows this and is trying as inconspicuously as possible to revise its figures upward."

4065 Alves Morgado, Nuno.
Aspectos da evolução demográfica da população da antiga provincia do Congo (1949-1956) [Aspects of the demographic development of the population of the old Congo province (1949-1956)]. Junta de Investigações do Ultramar, Centro de Estudos Políticos e Sociais, Estudos de Ciências Políticas e Sociais, 24. Lisbon, 1959. 65 pp.

Analysis of natality, mortality, areal distribution, and migration, based on a comparison of available vital statistics with data from the medical and public health services concerned with the indigenous population.

4066 Bauvir, Louis.
Où en est la démographie Wallonne? [What is the Walloon demographic situation?] Revue du Conseil Economique Wallon (Liége), No. 42, Jan.-April 1960. Pp. 38-51.

A study of vital statistics for 1958 and 1959 with reference to the reform of family allowance payments for wage-earners. Statistical appendix gives birth and death rates and net natural movements in 26 Walloon cities.

4067 Bettison, David G.
The demographic structure of seventeen villages in the peri-urban area of Blantyre-Limbe, Nyasaland. Rhodes-Livingstone Institute, Communication 11. Lusaka, 1958. 93 pp.°

The social and economic structure of a sample of peri-urban villages, Blantyre-Limbe, Nyasaland. Rhodes-Livingstone Institute, Communication 12. Lusaka, 1958. 95 pp.°

4068 Blanc, Robert, and Théodore, Gérard.
Les populations d'Afrique Noire et de Madagascar: enquêtes et résultats récents [The populations of Black Africa and of Madagascar: recent surveys and findings]. Population (Paris) 15(3):407-432. June-July 1960.

A report on progress in population estimation based on local surveys. Evaluation of methods and presentation of summary data on numbers, marital status, sex-age structure, migrations, fertility, mortality. Appendixes include a summary bibliography on demography in the member states of the French Community, the Overseas territories, and the Trusteeship states. French Polynesia is included, in addition to those in Africa.

4069 Chandrasekhar, S.
A note on demographic statistics in India. Population Review (Madras) 4(1): 40-45. Jan. 1960.
Notes on data available and desirable from the census, vital registration, marriage statistics, migration statistics, miscellaneous statistics.

4070 Combs, Jerry W., Jr.
Demographic changes in Eastern Europe. Pp. 11-29 in: Milbank Memorial Fund. Population trends in Eastern Europe, the USSR and Mainland China. New York, 1960. 336 pp. Discussion on pp. 29-34.
A statistical review of the period during and since World War II including growth trends, migration and population transfers, death rates, birth rates, urbanization, age structure. Countries: Albania, Bulgaria, Czechoslovakia, East Germany, Hungary, Poland, Romania, Yugoslavia.

4071 France. Institut National d'Etudes Démographiques.
Bourgeois-Pichat, Jean. — Un essai d'évaluation de la précision des statistiques démographiques d'un pays sous-développé: la Thaïlande [Bourgeois-Pichat, Jean. — An attempt to appraise the accuracy of the demographic statistics of an underdeveloped country: Thailand]. By P. V. Population 15(1):131-135. Jan.-March 1960.
A summary of the study cited as Working Paper 13 in Title 4513, this issue.

4072 Germany. Federal Republic. Statistisches Bundesamt.
Bevölkerungsstand und Bevölkerungsentwicklung im Jahr 1959 [Population characteristics and population change in 1959]. By Schf. Wirtschaft und Statistik 12(3):212-213. March 1960.
Eheschliessungen, Geborene und Gestorbene im Jahr 1959 [Marriages, births and deaths in 1959]. By H. van Randenborgh. Wirtschaft und Statistik 12(3):158-160; 131*. March 1960.

4073 Germany. West Berlin. Statistisches Landesamt.
Bevölkerungsvorgänge und Bevölkerungsentwicklung in Berlin (West) im Jahre 1959 und im 1. Vierteljahr 1960 [Population data and population change in West Berlin in 1959 and the first quarter of 1960]. Berliner Statistik Monatsschrift 14(6):160-163. June 1960.
Marriages, births, deaths, migration, and net change in numbers.

4074 Hegarty, Edward J.
Emigration figures. Christus Rex: Quarterly Journal of Sociology (Maynooth) 14(3): 205-209. July 1960.
A review of emigration and density data for the 26-county area of Eire and the 6-county area of Northern Ireland, 1871-1956, and for each county, 1926-1956. Consideration of recent and proposed policies.

4075 Honohan, W. A.
The population of Ireland. Journal of the Institute of Actuaries 86(I,372):30-49. Discussion, pp. 50-68. 1960.
A historical-statistical account of population trends and characteristics in the nineteenth and twentieth centuries and of various interpretations of factors in the decline or stability in numbers. Discussion of nuptiality, fertility, mortality, and migration, and of the influence of socioeconomic conditions. Consideration of the current population policy of the Irish Free State and of the Catholic church.

4076 Iragorri V., José M.
Evolución demográfica colombiana [Demographic development of Colombia]. Bogotá, Editorial Universidad, 1959. 76 pp. and folding maps.°
Tesis de grado — Pontificia Universidad Católica Javeriana, Bogotá.

4077 Kantner, John F.
Recent demographic trends in the USSR. Pp. 35-63 in: Milbank Memorial Fund. Population trends in Eastern Europe, the USSR and Mainland China. New York, 1960. 336 pp. Discussion on pp. 63-67.
Analysis of data from official statistical publications, including advance reports of the 1959 census, on population size and composition, mortality, fertility.

4078 Koblenzer, P. J., and Carrier, N. H.
The fertility, mortality and nuptiality of the Rungus Dusun. Population Studies 13(3): 266-277. March 1960.
Report on data obtained in a medical survey of 185 out of the 192 inhabitants of a Dusun village complex in British North Borneo in 1956. Analysis of data on age-sex structure, marital status, fertility ratios, child mortality, adult mortality, reproduction rates. Appendixes discuss accuracy of age statements, manipulation of the raw data, and estimation of age-specific fertility rates.

4079 Mortara, Giorgio.
Alcune caratteristiche demografiche differenziali del Nord e del Sud dell'Italia [Some differential demographic characteristics of the North and the South of Italy]. Pubblicazioni dell'Istituto di Demografia,

Facoltà di Scienze Statistiche Demografiche ed Attuariali dell'Università di Roma, 5. Rome, 1960. [iii], 76 pp.

4080 Pressat, Roland.
La situation démographique [Demographic conditions]. Population (Paris) 15(3): 517-543. June-July 1960.

Annual review for 1959 of vital statistics of France. Table 12, Probabilities of pregnancy a_n (rank defined by the number, n, of children already borne by the mother), for 1911-1913 and single years, 1925-1958. Mortality data include abridged life tables for 1957 and for 1958, and analysis of infant mortality rates by department, 1948-1958.

4081 Selegen, Galina V.
The first report on the recent population census in the Soviet Union. Population Studies 14(1):17-27. July 1960.

Critical notes on the data contained in the report of May 10, 1959, with special reference to natural increase, age-sex composition, geographical distribution, and rural-urban migration.

4082 Sweden. Statistiska Centralbyrån.
Befolkningsutvecklingen i länen under år 1959 [Vital statistics for 1959 by county]. By T. W-m. Statistisk Tidskrift 9(4):217-220. April 1960.

4083 Valaoras, Vasilios G.
A reconstruction of the demographic history of modern Greece. Milbank Memorial Fund Quarterly 38(2):115-139. April 1960.

Presentation of findings of an application of the survival ratio method to the census data on age-sex composition, 1861-1951, and the records of an intermittant registration of vital events, 1860-1885, 1921-1940, and 1950 to date. Findings concern: the volume of the abrupt population changes; the rate of population growth; sex and age composition; the vital rates.

4084 Wiesler, Hans.
Asiatische Bevölkerungsstatistik: Stand, Probleme der Erfassung, Aussagewert [Asian population statistics: present status, problems of comprehension, value of the evidence]. Allgemeines Statistisches Archiv (Munich) 44(1):58-70. 1960.

[See also Titles 4007, 5158, 4327, 4328, 4332, 4363, 4365, 4366, 4532]

Surveys Containing Demographic Material

4085 Belgium. Ministère des Colonies.
Volume jubilaire du Bulletin Agricole du Congo Belge et du Ruanda-Urundi, 1910-1960 [Jubilee volume of the ... 1910-1960]. Brussels, 1960. 226 pp. Duplicate titles in Flemish.

The principal contents consist of a historical account of the development of agriculture, forests, stockraising, hunting and fishing from 1885 to 1958, including a history of colonization in five periods of Belgian rule, 1908-1958.

4086 Kovacsics, Josef.
Kozsegszervezetunk problemai Baranya Megyeben [Problems of the organization of communes in Baranya County]. Studia Iuridica Auctoritate Universitatis Pécs Publicata, 12. Budapest, 1960. 58 pp. Russian, English, and German summaries.

Report of a study of statistical bases for delimiting administrative units and planning economic development. Includes report on the population trend of the villages for the past 80 years and on changes in the occupational and age distributions.

4087 Leurquin, Philippe.
Le niveau de vie des populations rurales du Ruanda-Urundi [The standard of living of the rural populations of ...]. Louvain, Editions Nauwelaerts, and Paris, Beatrice-Nauwelaerts, 1960, for the Université Catholique de Louvain. 420 pp.

Includes various statistical data on family size, etc.

4088 Madagascar. République Malgache [Malagasy Republic].
Plan de dévéloppment économique et sociale: rapport d'éxécution, 1re juillet 1958-30me juin 1959 [Plan of economic and social development: report of accomplishments, July 1, 1958-June 30, 1959]. Tananarive, Imprimerie Officielle, 1960. 343 pp.

Includes a summary of statistics on population size, distribution, age-sex structure, occupations. Also section on urbanization and habitat, with ground-plans of three towns.

4089 Shinichiró, Takakura.
The Ainu of northern Japan. A study in conquest and acculturation. Translated and annotated by John A. Harrison. Transactions of the American Philosophical Society, New Series, Vol. 50, Part 4. Philadelphia, 1960. [iii], 88 pp.

Aspects considered include family organization and social controls, early settlement patterns, and colonization by the Russians and the Japanese. Bibliographical annotations.

4090 Solomon, Ezra, and Bilbija, Zarko G.
Metropolitan Chicago: an economic

analysis. A Publication of the Graduate School of Business, University of Chicago, 3rd Series. Glencoe, Ill., Free Press, 1960. xix, 208 pp.

"This book investigates the Chicago metropolitan area [as defined by the Bureau of the Budget, 1948] in terms of the major variables used in modern economic analysis." Chapters include: Level of employment and output; Factors affecting future growth. Technical appendixes include: Population, labor force, and employment.

4091 Spain. Dirección General de Plazas y Provincias Africanas e Instituto de Estudios Africanos.

Resumen estadístico del Africa española (1956-1958) [Statistical summary of Spanish Africa (1956-1958)]. Madrid, 1959. 578 pp.

Includes chapters on population, labor, and health. [Africa (Madrid), No. 221].

C. SPATIAL DISTRIBUTION

General Spatial Distribution

4092 Brookfield, H. C.

Population distribution in Mauritius; an inquiry into the determinants of distribution in a tropical sugar land. Journal of Tropical Geography, Vol. 13, Dec. 1959. Pp. 1-22.°

4093 Duncan, Otis Dudley, et al.

Metropolis and region. Baltimore, Published for Resources for the Future, Inc., by the Johns Hopkins Press, 1960. xix, 587 pp.

A study of the structure of the modern metropolis and its geographical and economic setting in the United States, by a group of sociologists at the University of Chicago.

4094 Giurovitch, G.

Alcune considerazioni sulla concentrazione della popolazione italiana prima e dopo dell'ultima guerra [Some considerations on the concentration of the Italian population before and since the last war]. Genus (Rome) 13(1-4):26-61. 1957.

Study of intercensal change 1936-1951 in the degree of urban concentration, measured by the indexes of Pareto and Gini; communal and regional concentrations and variations; relationships between population concentration and increase and other demographic and economic characteristics. [B. S. P. 14(2)]

4095 Lamser, Václav.

Pohyb obyvatelstva mezi venkovem a městem [Country-town commutation of the population]. Demografie (Prague) 2(2):134-140. 1960. Russian and English summaries.

Analysis of data from the 1950 census for Czechoslovakia and the Czech lands and Slovakia separately.

4096 Nunley, Robert E.

The distribution of population in Costa Rica. National Research Council Publication 743. National Research Council, Division of Earth Sciences, Foreign Field Research Program, Report No. 8. Washington, National Academy of Sciences — National Research Council, 1960. vii, 71 pp.

Statistical and cartographic study of the history of settlement, regional distributions, and urban growth. See also 26:Title 2099.

4097 Orleans, Leo A.

Population redistribution in Communist China. Pp. 141-150 in: Milbank Memorial Fund. Population trends in Eastern Europe, the USSR and Mainland China. New York, 1960. 336 pp. Discussion on pp. 150-156.

Discussion of the density pattern of 1953 in relation to resources and of the available evidence on inter-regional and rural-urban migration.

4098 Pinchemel, Philippe.

L'interdépendance des villes et des campagnes et les problèmes des niveaux optima [The interdependence of towns and countryside and the problem of optimum size]. Revue Economique (Paris) 11(3):337-349. May 1960.

Brief history of demographic change and of urbanism in France since 1851; present-day international comparisons; discussion of urban-rural optima and recommendations for planning.

4099 Santos, Milton.

A cidade como centro de região; definições e metodos de avaliação da centralidade [The city as regional center: definitions and methods of estimating centrality]. Publicações da Universidade da Bahia, VII, 3. Laboratorio de Geomorfologia e Estudos Regionais. Bahia, 1959. 28 pp.°

4100 Universidade de Coimbra. Centro de Estudos Geográficos.

Aglomeração e dispersão do povoamento em Portugal [Agglomeration and dispersion of population in Portugal]. Boletim do Centro de Estudos Geográficos (Coimbra) 2(16-17):103-108.°

4101 Vaumas, Etienne de.
La répartition de la population à Chypre et le nouvel Etat chypriote [The distribution of population in Cyprus and the new Cypriot state]. Revue de Géographie Alpine (Grenoble) 47(4):457-529. 1959.°

4102 Wiarda Beckman Stichting [Wiarda Beckman Foundation].
Bevolkspreiding [Population distribution]. Amsterdam, De Arbeiderspers, 1959. 76 pp.
The report of a work group, J. P. Kruyt, Chairman, on problems and policy related to population distribution in the national plan for the Netherlands. [De Economist 108(5-6)]

[See also Titles 4010, 4032, 4045, 4065, 4074, 4081, 4086, 4088, 4089, 4103, 4108, 4114, 4119, 4121, 4135, 4137, 4144, 4149, 4151, 4162, 4172, 4280, 4311, 4319, 4320, 4327, 4332, 4347, 4446, 4523, 4532, 4540, 4548, 4583, 4589]

Urban Patterns

4103 Achterstraat, J.
Die steden in Australië [The cities of Australia]. Tijdschrift voor Economische en Sociale Geografie (Rotterdam) 51(3):65-70. March 1960. English summary.
Discussion of the historical origins and apparent demographic and social consequences of an extraordinary metropolitanization.

4104 Anfre, Jean.
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E. MORTALITY

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detailed explanation of the methods followed and a statistical summary of the findings, excerpts are given from extended interviews with the families [P. R. T. 15(1)].

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4215 Ogino, Shimako.
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4218 Chin, Tom D. Y., et al.
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4221 Davis, R.-A., et al.
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Notes on the nature of the statistical records for France and their interpretation in the comparison of mortality by accidents with total mortality, and analysis by sex, age, and type of accident. Presentation of basic tables. Data concern the period 1906-1958.

4225 Freudenberg, Karl.

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4231 Ledermann, Sully, and Metz, Bernard.

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4237 Sato, Yasuko.
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F. FERTILITY AND NATURAL INCREASE

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4242 Amato, Vittorio.
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"This paper indicates the average number of children ever born (fertility) to women in Central India, classified according to the occupation, income, and landownership of their husbands, and the extent to which their fertility averages are affected by the presence of widows and remarried. Secondly, attention is given to the relation between the fertility averages for unbroken, first marriages in these groups and the age of the female at marriage, the kind of family in which she lives (joint or nuclear), and place of residence. ... Data for this study were obtained through a survey conducted by the author during January-May 1958 in Nagpur District... The sample consists of one per cent of the heads of households in the rural area and in each ward of the city and five towns."

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Causes of congenital malformations in human beings. Journal of Chronic Diseases 10(2):97-110. Aug. 1959.

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4255 Hugon, Jean.
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Sandler, E. Emotional stress and infertility.
Smith, W. S. Abortion as a problem in Dublin obstetric practice.

4260 Villa Rodríguez, Luciano de la.
Los prematuros; etiología, mortalidad, fisiopatología, clínica y tratamiento [Premature infants: etiology, mortality, physiopathology, clinics and treatment]. Madrid, [Paz Montalvo], 1957. 143 pp.°

Fertility Controls

4261 Agarwala, S. N.
Clinical effectiveness of contraceptive methods. Results of a Delhi study. Reprinted from The Journal of Family Welfare (Bombay), March 1960. 20 pp.
A report based on a study in July 1958 of case cards and follow-up visit cards relating to 5,912 patients in the Delhi family planning clinics belonging to the Contributory Health Service Scheme of the Government of India.

4262 Aoki, Hisao.
[Another report on the promotion of family planning by personal instruction and its effects.] Pp. 17-21; English summary, p. 68 in: Japan. Welfare Ministry. Annual reports of the Institute of Population Problems, No. 2. Tokyo, 1957. 77 pp.
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4263 Aoki, Hisao.
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Report of an investigation of 704 families practicing contraception within the employment of the Hitachi Shipbuilding and Engineering Co. Ltd., sponsors of a family planning project since 1955. Calculation of pregnancies per 100 years exposed to the risk of pregnancy (the Stix-Notestein modification of method advocated by Raymond Pearl). Notes on proportion of pregnancies terminated by artificial abortion.

4264 Babchuk, Nicholas, and Lacognata, Angelo.
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"Some brief, nontechnical evaluations of various procedures are made in order to bring into focus the moral implications of the various possible methods of controlling fertility physiologically."

4268 Giese, Hans, Editor.
Über die menschliche Fortpflanzung [On human reproduction]. Vol. VII. Stuttgart, Ferdinande Enke Verlag, 1959. 100 pp.
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4269 Honda, Tatsuo.
[A summary of the results of a demographic survey on employees of modern factories and their families.] Pp. 1-6; English summary, p. 65 in: Japan. Welfare Ministry. Annual reports of the Institute of Population Problems, No. 2. Tokyo, 1957. 77 pp.
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4270 Jacobson, Benjamin D.
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4273 Muramatsu, Minoru.
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4274 Norton, J. W. R., et al.
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4275 Potter, Robert G., Jr.
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4277 Rainwater, Lee, and Weinstein, Karol K.
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4279 Sutter, Jean, and Morin, Francis.
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[See also Titles 4001, 4461, 4464, 4466, 4467, 4525, 2526, 2539]

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G. MARRIAGE, DIVORCE, & THE FAMILY

Marriage and Divorce

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4282 Randenborgh, Horst van.
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4283 Schmitt, Robert C.
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4284 Takagi, Naobumi.
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tion rates calculated by the use of these tables.

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4286 Germany. Federal Republic. Statistisches Bundesamt.
Kinder und Jugendliche in Familien. Weitere Ergebnisse des Mikrozensus Oktober 1957 [Children and youth in families. Major findings of the sample survey of October 1957]. Wirtschaft und Statistik 12(3): 214-218; 193*-195*. March 1960.
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4287 Jayawardena, C.
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4288 Maisel, Sherman J.
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4289 Michel, Andrée.
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4290 Michel, Andrée.
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4291 Newth, J. A.
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4292 Population Reference Bureau, Inc.
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4293 Schubnell, Hermann.
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4295 Solien, Nancie L.
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4296 Srb, V., and Wynnyczuk, V.
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4297 U.S. Social Security Administration. Bureau of Public Assistance.
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[See also Titles 4056, 4087, 4089, 4210, 4278, 4279, 4336, 4339, 4340, 4344, 4404, 4429, 4433, 4522, 4558, 4588, 4611, 4618]

H. INTERNATIONAL MIGRATION

General

4298 Ceylon. Department of Labour.
Migration statistics. By S. R. Ceylon Labour Gazette 11(4):145-150. April 1960.

A historical study of migration statistics, including trends 1900-1958, the effect of migration on the total population 1871-1957, the immigration and emigration of Indian estate laborers, and immigrants classified by occupation and nationality.

4299 De Sousa Bettencourt, Jose.
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4300 Hama, Hidehiko.
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4301 International Labour Office.
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No. 6. Convention relating to the status of refugees: ratifications and accessions. Employment of aliens in the Syrian Province of the United Arab Republic.

No. 8. Intergovernmental Committee for European Migration: eleventh session of the Council. Immigration to Singapore in 1958.

4302 Kaigl, Vl., Editor.
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4303 New Zealand. Department of Labour.
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4304 Petrilli, Giuseppe.
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4305 Rousseaux, Réné.
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4306 Shimamura, Toshihiko.
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70-74; English summary, pp. 91-92 in: Japan. Welfare Ministry. Annual reports of the Institute of Population Problems, No. 4. Tokyo, 1959. 92 pp.

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4307 Zubrzycki, J.
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[See also Titles 4057, 4060, 4068-4070, 4074, 4075, 4085, 4096, 4172, 4311, 4318, 4364, 4367, 4390, 4449, 4453, 4475, 4478, 4479, 4537, 4580, 4604, 4605]

Settlement and Resettlement

4308 Patterson, David.
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[See also Titles 4070, 4085]

Temporary Movements

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Refugees

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[See also Titles 4301, 4483, 4542]

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General

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4311 Germany. Federal Republic. Statistisches Bundesamt.
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4313 Kobayashi, Kazumasa.
[A study on population distribution in India by states of birth and states of residence.] Pp. 63-69; English summary, pp. 90-91 in: Japan. Welfare Ministry. Annual reports of the Institute of Population Problems, No. 4. Tokyo, 1959. 92 pp.

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4314 Mazzoleni, Giuseppe P.
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Analysis of the statistics of the period 1934-1956.

4315 Pavlik, Z.
[Recent data on migration in Czechoslovakia.] Ceskoslovenska Spolecnost Zemepisna, Sbornik [Czechoslovak Geographical Society, Journal] (Prague) 64(4):324-337. 1959. In Czech with English and Russian summaries.°

4316 Pihlblad, C. T., and Aas, Dagfinn.
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ernment has constructed a steel mill. Analysis by age cohorts.

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4319 Srb, V., and Vysušilová, D.
Statistika vnitřního stěhování podle velikostních skupin obcí [Internal migration in Czechoslovakia in 1955-1957 according to size groups of communities]. Statistický Obzor (Prague) 40(4):170-176. April 1960. English, French, and Russian summaries in leaflet.
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4321 U. S. Bureau of Old-Age and Survivors Insurance.
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4322 Universidad de Chile. Instituto de Economía.
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[See also Titles 4054, 4058, 4060, 4065, 4097, 4111, 4113, 4116, 4119, 4130, 4137, 4143, 4167, 4427, 4474, 4489, 4513, 4522, 4606]

Rural-Urban

4323 Gulbrandsen, Odd.
The structural transformation in Swedish agriculture and migration, 1750-1970. [Industrial Institute for Economic and Social Research], Industriens utredningsinstitut, Stockholm, [Miscellaneous Publications, 7.] Stockholm, 1959. 19 pp., processed.°

4324 Mendras, Henri.
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4325 Pohoski, M.
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[See also Titles 4081, 4097, 4113, 4423, 4426, 4520]

Settlement and Resettlement

See Title 4532.

J. CHARACTERISTICS

Demographic Characteristics

4326 Balevski, D., and Minkov, M.
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itan counties, 1940-50; Characteristics of the population resident in urban and rural areas, 1950; Summary and implications.

4328 Grounds, J. G.
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4329 Interamerican Statistical Institute. Instituto Interamericano de Estadística.
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Vol. I. Características generales de la población [General characteristics of the population].
Part 1. Población censada y estimada. Agrupaciones basicas de la población censada [Enumerated and estimated population. Basic groupings of the enumerated population]. April 1960. xvi, 125 pp.
Part 2. Estado conyugal y distribución de la población por hogares [Marital status and distribution of the population by residence]. Feb. 1960. xiv, 97 pp.
Part 3. Pais de nacimiento, nacionalidad y lengua [Country of birth, nationality and language]. June 1960. xiii, 122 pp.

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4331 New York State. Division of Employment.
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4333 Schwarz, Karl.
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Presentation of tables and age pyramids illustrating the age structure of a stable population subject to five combinations of the fertility and mortality of 1901-10 in the German Reich and of 1957 in the Federal Republic without Berlin, and of the fertility of the German Reich in 1933. Discussion of the influence of mortality and of birth frequency.

4334 Ueda, Masao.
[Regional difference in the aging of population of our country.]; Pp. 26-30; English summary, pp. 69-70 in: Japan. Welfare Ministry. Annual reports of the Institute of Population Problems, No. 2. Tokyo, 1957. 77 pp.
Observations on changes in age composition in urban areas, rural areas, and prefectures between 1920 and 1955, and especially in mean and median ages.

[See also Titles 4036, 4056, 4067, 4068, 4070, 4072, 4075, 4077-4079, 4081, 4083, 4086, 4088, 4117, 4127, 4135, 4144, 4149, 4160, 4167, 4294, 4296, 4305, 4307, 4363, 4366, 4372, 4409, 4413, 4432, 4443, 4446, 4513, 4522, 4535, 4558, 4580, 4589, 4601, 4606, 4609, 4610, 4613]

Biological Characteristics

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K problému praktické aplikace výškováhových tabulek [The problem of a practical application of the height-weight tables]. Demografie (Prague) 2(2):153-162. 1960. Russian and English summaries.
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4339 Shinozaki, Nobuo.
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4340 Shinozaki, Nobuo.
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Report of findings of a genealogical study covering eight generations in one of the 140 village communities with high inbreeding density. Report of somatological findings and gene frequencies.

[See also Titles 4256, 4448]

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A clinical and genetico-statistical study of schizophrenia and low-grade mental deficiency in a large Swedish rural population. Acta Psychiatrica et Neurologica Scandinavica, Supplementum 140, Vol. 35, 1959. Copenhagen, Ejnar Munksgaard, 1959. 65 pp.

4342 Hallgren, Bertil.
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4343 Malzberg, Benjamin.
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[See also Title 4484]

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Estimation des variations de la population active entre 1954 et 1959, à l'aide des enquêtes sur l'emploi effectuées en 1958 et 1959 [Estimated changes in the active population between 1954 and 1959 based on employment surveys in 1958 and 1959]. Etudes Statistiques: Supplément Trimestriel du Bulletin Mensuel de Statistique, No. 1, Jan.-March 1960. Pp. 2-15.
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K. DEMOGRAPHIC AND ECONOMIC INTERRELATIONS

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4391 France. Institut National de la Statistique et des Etudes Economiques.
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"The present paper is part of a broader study which is primarily concerned with demographic factors affecting the pattern of labor force activities in Japan. ... More precisely, the major part of this paper has intensively dealt with the effects of changes in population composition by age, marital status and Shi and Gun on the total labor force participation rate since 1920 through the components technique which has been developed chiefly by Evelyn M. Kitagawa..."

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4416 Shimamura, Toshihiko.

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The changing woman worker; a study of the female labor force in New Jersey and in the Nation from 1940 to 1958. Rutgers, the State University, Institute of Management and Labor Relations, Bulletin no. 7. [New Brunswick, N. J.], [1960]. 23 pp.°

4418 U.S. Congress. Joint Economic Committee.

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4425 Kordos, J.
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Economic Dependency

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Other Data Collecting and Processing

4517 Larsson, Folke.

Svenska försök med labour force-metoden. I. [Tentative labor-force surveys in Sweden. I]. Statistisk Tidskrift (Stockholm) 9(5):272-279. May 1960. English summary, pp. 329-330.

Notes on methodology tested in a third pilot survey in May 1960, based on the Population Sample Register (PSR).

4518 U. S. Bureau of the Census.

The Soviet statistical system: labor force recordkeeping and reporting. By Murray Feshbach. International Population Statistics Reports, Series P-90, No. 12. Washington, Govt. Printing Office, 1960. VI, 151 pp., processed.

This report by the Foreign Manpower Research Office deals with the structure and operations of the statistical agencies concerned with collecting labor force data, examines the collection of employment data at the establishment level and traces its flow up to the stage of the preparation of the national labor accounts, and interprets methodologically some employment statistics in recent Soviet statistical handbooks. The practices described are those in use before the administrative reorganization of mid-1957.

4519 U. S. Bureau of Employment Security.

Handbook on estimating population of labor market areas. By Irving Gedanken. BES no. R-183. Washington, 1959. 50 pp.°

[See also Titles 4078, 4214, 4300, 4354, 4373, 4522, 4525, 4538]

P. PROFESSIONAL MEETINGS AND CONFERENCES

4520 American Economic Association.

Papers and proceedings of the seventy-second annual meeting of the American Economic Association, Washington, D. C., December 28-30, 1959. Edited by the Sec-

retary of the Association. American Economic Review 50(2): i-xi, 1-745. May 1960.

Partial contents:

Hathaway, Dale E. Migration from agriculture: the historical record and its meaning.

Maddox, James G. Private and social costs of the movement of people out of agriculture.

Johnson, D. Gale. Policies to improve the labor transfer process.

Mincer, Jacob. Labor supply, family income, and consumption.

4521 American Sociological Society.

Papers of symposium on demographic and sociological aspects of scientific manpower, Washington, D. C., December 29, 1958. Pp. [6]-87 in: American Association for the Advancement of Science. Papers of the Seventh Conference on Scientific Manpower. [Washington, 1959].°

4522 American Statistical Association.

Summaries of papers delivered at the 119th annual meeting of the... Washington, D. C., December 27-30, 1959. Journal of the...55(290):350-374. June 1960.

Partial contents:

Bohidar, N. R. Role of sex-linked genes in quantitative inheritance and related topics.

Brunsman, Howard G. Publications of the 1960 census.

Carleton, Robert O. Migration and employment.

Chavrid, Vladimir D., and Cherin, Gabriel. Use of Standard Metropolitan Statistical Areas in government.

Hansen, Morris H., et al. On the measurement and control of measurement errors in censuses and surveys.

Hansen, Morris H., et al. The evaluation and research program of the 1960 censuses.

Hornseth, Richard A. Programming the population census.

Keyfitz, Nathan. Population and welfare in South Asia.

Marshall, J. T. The problems of questions such as religion and origins in the Canadian census.

Martin, Margaret E. Recent changes in programs for labor force measurement.

Nimkoff, M. F., and Middleton, Russell. Types of family and types of economy.

Rose, J. H., and Glick, Paul C. Living quarters and household concepts in the 1960 census.

Sagen, Oswald K., et al. Comparing health statistics from record sources and from household interviews.

Sheldon, Henry D. Where we stand in urban-rural and farm residence concepts.

Taeuber, Conrad. Final tract tables to be published for the 1960 census.

Taeuber, Irene B. Western expansion and ethnic convergences in the population of the United States.

Taeuber, Karl E. Empirical analysis of segregation indexes.

4523 Association of American Geographers.

Abstracts of papers presented at the 55th annual meeting ... Pittsburgh, Pennsylvania, March 30-April 2, 1959. Annals of the Association of American Geographers 49 (2):168-222. June 1959.

4524 Duric, V.

[Survey of some demographic problems discussed at the Third Annual Meeting of the Yugoslav Statistical Society.] Srpska Akademija Nauka, Etnografski Institut, Glasnik (Belgrade) 4/6:329-335. 1955/1957 (published 1957). In Serbo-Croatian with English, French, German, and Russian summaries.°

4525 Family Planning Association of India.

Scientific seminar on family planning. Report of the proceedings. Bombay [1960]. [vii], 176 pp.

The texts of papers presented at the conference held November 10-13, 1955. Topics: Physiology of reproduction; Pharmacologic aspects of contraceptives; Clinical tests of chemical contraceptives. Also the following field studies:

Purshottam, N. Epidemiologic approach to family planning.

Wyon, John B. Design and practice of field studies in the population problem of India.

Shirkhande, S. M. An analysis of 1,040 patients in a birth control clinic.

4526 Family Planning Association of Pakistan.

Report of the regional seminar on planned parenthood held at Assembly Chambers, Lahore, from February 24 to 26, 1959. Lahore, [1959]. 48 pp.

Section gives texts of "important papers read at the Seminar."

4527 George, Pierre.

Le congrès international d'étude de la population (Vienne, 1959) [The International Congress for the Study of Population...]. Annales de Géographie (Paris) 68(370):537-540. Nov.-Dec. 1959.

4528 International Statistical Institute. Institut International de Statistique.

28 Session de l'Institut International de

Statistique ... Rome, 6-12 September 1953, Actes de la 28e session de ... [28th session of the ... Rome, Sept. 6-12, 1953. Proceedings of the....] Bulletin de l'Institut International de Statistique 34(1):1-480. Rome, 1960.

Presentation of texts of official addresses and verbatim records of discussions at the various meetings. Also complete lists of delegates, officers, papers presented. See also 21:Title 3356.

4529 International Statistical Institute. Institut International de Statistique. Comité d'Organisation.

31e session de l'Institut International de Statistique [Thirty-first session of the...]. Bulletin de l'Institut ..., Vol. 37. Brussels, 1960. In 3 parts.

1. Compte rendu de la 31e session de l'Institut ... Bruxelles 1958 [Proceedings of the...]. 148 pp.

2. Travaux présentés à la 31e session.... [Papers presented at the ...]. 495 pp. [Communications for the sections: Méthodes statistiques pour évaluer le niveau de vie; Aspects internationaux de recensements de la population de 1960; L'application des méthodes de sondage; Problèmes statistiques dans l'analyse de systèmes dynamiques interdépendents; Statistique économique; Divers. See Titles 4120, 4188, 4201, 4202, 4355, 4393, 4490, 4502, 4503, 4505, 4510, this issue, for citation of papers of demographic interest.]

3. Idem. [Communications for the sections: Problèmes statistiques dans l'astronomie; Applications de méthodes statistiques dans les sciences biologiques; Développements récents en matière des plans d'expérience.]

4530 International Union of Biological Sciences, and the Biometrics Society.

Biometrical genetics; proceedings of an international symposium held at Ottawa, August 1958, sponsored by the.... Edited by Oscar Kempthorne. International Series of Monographs on Biometry. International Union of Biological Sciences, Series B (Colloquia), No. 38. London, New York, Symposium Publications Divisions, Pergamon Press, 1960. viii, 234 pp.°

4531 Lasker, Gabriel W., Editor.

The processes of ongoing human evolution. Human Biology 32(1):1-108. Feb. 1960.

Six papers comprising a symposium entitled The processes of on going human evolution as viewed 100 years after the publication of The origin of species, presented at the 58th annual meeting of the American Anthropological Association, Mexico City, Dec. 28, 1959.

Baker, Paul T. Climate, culture, and evolution.

Livingstone, Frank B. Natural selection, disease, and ongoing human evolution, as illustrated by the ABO blood groups.

Motulsky, Arno G. Metabolic polymorphisms and the role of infectious diseases in human evolution.

Hulse, Frederick S. Adaptation, selection, and plasticity in ongoing human evolution.

Lasker, Gabriel W. Migration, isolation, and ongoing human evolution.

Reynolds, Earle E. Irradiation and human evolution.

4532 Nederlandse Vereniging voor Economische en Sociale Geografie.

Special issue on the occasion of the XIXth International Geographical Congress at Stockholm, Sweden, 5-13 August 1960. Tijdschrift voor Economische en Sociale Geografie (Rotterdam) 51(7):161-200. July 1960.

Contents:

Takes, C. A. P., and Venstra, A. J. Zuyder Zee Reclamation Scheme. Post war developments in planning and execution especially as regards layout and colonization.

Steigenga-Kouwe, Suzanne E. The Delta Plan.

Welsenes, C. van. The development of the agricultural area of northern Groningen.

Hoen, P. C. A. 't. Post war industrial development in the south of the Netherlands.

Winsemius, J. Urbanisation in the western part of the Netherlands ("Randstad Holland").

Some literature on geographical aspects of the Netherlands 1950-1960 (in foreign languages only).

4533 Roberts, D. F., and Harrison, G. A., Editors.

Natural selection in human populations. Symposia of the Society for the Study of Human Biology, Vol. 2. New York, Symposium Publications Division, Pergamon Press, 1959. vii, 76 pp.

Papers from a symposium held at University College, London, on Nov. 8, 1958. "L. S. Penrose reviews natural selection in man, suggesting fields for investigation. A. R. G. Owen describes mathematical models for selection, and C. A. Clark discusses relative fitness of human mutant genes. Other topics include natural selection and some polymorphic characters in man (P. M. Sheppard), selection of gene systems in natural populations (T.

Dobzhansky), and the rate of change in primate evolution (E. H. Ashton)." [E. Q. 7(2)]

4534 U.S.S.R. TSentral'noe Statisticheskoe Upravlenie.
Vsesoiuznoe soveshchanie statistikov [Moscow, 1957]. Stenograficheskii otchet [All-Union Statistical Congress, Moscow, 1957. Stenographic report]. Moscow, Gos. Statisticheskoe Izd-vo, 1959, 687 pp.°

[See also Titles 4016, 4026, 4041, 4114, 4259, 4268, 4513]

Q. BIBLIOGRAPHIES

4535 Hawaii. State Planning Office.
Selected bibliography of recent publications on Hawaii's aged population (Prepared by the Hawaii State Planning Office for the Governor's Interim Commission on Aging). Staff Research Memorandum 24. Honolulu, March 23, 1960. 3 pp., processed.
Annotated bibliography of population projections for Hawaii. Staff Research Memorandum, 25. March 29, 1960. 12 pp., processed.

4536 Institute for the Study of the U.S.S.R.
Institute publications, 1951-1958. Munich, 1959. 62 pp.
Part I, Complete list of Institute publications; Part II, Breakdown of contents by subject. Demography, p. 11.

4537 Okinshevich, Leo A., and Gorokhoff, Cecilia J., Compilers.
Latin America in Soviet writings 1945-1958. Hispanic Foundation Bibliographical Series, No. 5. Washington, Library of Congress, Slavic and Central European Division, and Hispanic Foundation Reference Department, 1959. XII, 257 pp.
Emigration and immigration, Items 1904-1943.

4538 Pennell, Maryland Y., et al.
Selwyn D. Collins' contributions to health statistics: a guide to his works. Public Health Monograph, No. 62. Public Health Service Publication, No. 737. Washington, Govt. Printing Office, 1960. 14 pp.

4539 Tietze, Christopher, Editor.
Selected bibliography of contraception: 1940-1960. National Committee on Maternal Health, Inc., Publication No. 6. New York, 1960. iv, 76 pp., processed.
"This Bibliography of Contraception covers the medical and sociological literature, including books, chapters of books, conference papers, and journal articles, published in the languages of Western Europe from 1940 to the early part of 1960. In separating the field of contraception from basic research in human and animal reproduction, it has been our intention to include primarily those studies which are directly relevant to clinical application." Omitted topics include laws and legal literature and publications on surgical sterilization.

4540 U. S. Department of Agriculture.
Urbanization and changing land uses. A bibliography of selected references, 1950-58. Compiled by Elizabeth G. Davis, et al. Miscellaneous Publication, No. 825. Washington, 1960. iv, 212 pp., processed.
A total of 1,319 annotated references, topically arranged with author index. Topical sections include: Population; The rural-urban fringe; Nonfarm employment in rural areas.

4541 U. S. Library of Congress. General Reference and Bibliography Division.
Official publications of Somaliland 1941-1959: a guide. Compiled by Helen F. Conover. Washington, 1960. 41 pp., processed.
Topical references include population items.

4542 U. S. Library of Congress. Slavic and Central European Division.
East Germany: a selected bibliography. Compiled by Fritz T. Epstein. Washington, 1959. vii, 55 pp., processed.
Part III, Demography, has sections: Population, general; Refugees in and from the Soviet Zone; The Wends.

4542 U. S. Public Health Service. Russian Scientific Translation Program.
Medical research in the U.S.S.R.: a selected and annotated list of references. Compiled by Elizabeth Koenig. Washington, 1960. 45 pp.
Topics include: Genetics; Public Health.

4544 U. S. Public Health Serivce.
Scientific directory and annual bibliography, National Institutes of Health, 1960. Public Health Bibliography Series, No. 30. Washington, 1960. 111 pp.
Listing titles published in 1959.

4545 Université de Bordeaux, Faculté de Droit et des Sciences Economiques.
Bibliographie économique régionale [Regional economic bibliography]. Revue Juridique et Economique du Sud-Ouest, Sé-

rie Economique (Bordeaux) 9(1):149-183. 1960.

The first appearance of a bibliographical feature listing current and apst studies of the southwestern region of France, that is to have seven sections on demography.

4546 University of Glasgow. Department for the Study of the Social and Economic Institutions of the U.S.S.R.

A further list of Soviet statistical abstracts. Soviet Studies 11(3):348-351. Jan. 1960.

Supplements the list of 120 postwar statistical abstracts listed in the issue of Jan. 1959. Abstracts are classified as: general; All-Union sector; regional general; regional sector.

4547 Viet, Jean, Compiler.

New towns: a selected annotated bibliography. UNESCO, Reports and Papers in the Social Sciences, No. 12. Paris, 1960. 82 pp. Duplicate text in French.

Foreword, by Dame Evelyn Sharpe, deals primarily with the 15 new towns of Great Britain. Bibliography of 790 annotated references to works in English, French, Italian, and Russian. Introduction discusses the definition and general status of the new towns "problem" and their classification by purpose.

[See also Titles 4008, 4009, 4050, 4068, 4108, 4471, 4513, 4522, 4532, 4559]

R. NEW PERIODICALS

4548 American Geographical Society.

Soviet Geography: Review and Translation. Vol. 1. No. 1. Jan.-Feb. 1960. New York. Monthly except July and August.

"In addition to English translations of current Soviet articles in geography, it will contain news notes on Soviet political and economic developments of interest to geographers, and a survey of Soviet geographic literature." [C. G. P. 23(3)].

4549 European Society for Rural Sociology.

Sociologica Rurales: Journal of the.... Assen, Royal Van Gorcum Ltd. Vol. 1. No. 1. Spring 1960. 101 pp.

"A new periodical devoted to rural sociology, aiming both at reporting on current developments in the field and at publishing relevant research studies." [R. E. M. P. Bulletin 8(2)]

4550 India. Directorate-General of Health Services.

Family Planning News. Delhi. Vol. 1. No. 1. Jan. 1960. Monthly.

"... to keep field workers informed of the plan, activities and progress in family planning programme in different parts of the country and educate public opinion on matters of family planning...."

4551 Genetical Research.

Genetical Research. London, Cambridge University Press. Vol. I. No. 1. Feb. 1960. Annual volume in 3 parts.

"Genetical Research exists for the publication of original work on all aspects of genetics, or in any field of research which has an important bearing on genetics."

4552 Karnatak University. Department of Social Anthropology.

International Journal of Comparative Sociology. Vol. I. No. 1. Dharwar. March 1960. Semi-annual.

"The journal will present a detailed and scholarly account of studies made in different cultures on a comparative basis, with a view to reaching a common level of abstraction, and thereby showing areas where cultural bias might be involved." [Publisher's announcement].

4553 Society for the Study of Fertility.

Journal of Reproduction and Fertility. Oxford, Eng., Blackwell Scientific Publications. Vol. 1. No. 1. Feb. 1960. Quarterly.

"...publishes original papers, abstracts of Proceedings, and occasionally reviews and bibliographies, dealing with the morphology, physiology, biochemistry and pathology of reproduction in man and other animals, and with the biological, medical and veterinary problems of fertility."

4554 Université Laval. Faculté des Sciences Sociales. Département de Sociologie.

Recherches sociographiques. Revue trimestrielle publiée par le Département de Sociologie en collaboration avec le Centre de Recherches Sociales [Sociographical Research. Quarterly review published by the Department of Sociology in collaboration with the Center of Social Research]. Quebec. Vol. I. No. 1. Jan.-March 1960. 119 pp., processed.

"This scientific periodical will present extensive reports of empirical research focussed primarily on French-Canadian society. It will also contain monographs and contributions of researchers in such diverse social disciplines as Anthropology, Demography, Economics, History, Human geography, Social psychology, Sociology, etc." [Publisher's announcement]

[See also Title 4579]

NORTH AMERICA

Canada

4555 Canada. Dominion Bureau of Statistics.
Vital statistics 1958. Ottawa, Queen's Printer, 1960. 228 pp. Duplicate text in French.
Contains "new tables (in summary form) dealing with live births by birthweight cross-tabulated by age of mother and period of gestation, as well as the 1956 Life Table."

Puerto Rico

4556 Puerto Rico. Bureau of Labor Statistics.
Summary of the employment situation in Puerto Rico, 1950 to 1959. Special Report on the Labor Force, No. 24. San Juan, June 1960. 28 pp. Duplicate text in Spanish.

United States

4557 U. S. Bureau of the Census.
1960 Census of population. Alphabetical index of occupations and industries. Prepared under the supervision of Howard G. Brunsman. Washington, 1960. XXIV, 649 pp., processed.
"The Alphabetical Index... is designed for use in classifying the occupation and industry returns from the Population Censuses and demographic surveys conducted by the Bureau of the Census. The Index lists occupation and industry titles as they appear on the Census and survey schedules, together with a numerical or letter code indicating the appropriate occupation or industry category in which each title is to be classified. The occupation and industry titles shown here in alphabetical arrangement are presented according to the category in which each title belongs in a companion volume, the Classified Index of Occupations and Industries."

4558 U. S. Bureau of the Census.
Current Population Reports. Series P-20. Population characteristics. Washington, 1947-.
Nos. 1-100. See 26:Title 3538.
No. 101. School enrollment: October 1959. May 22, 1960. 12 pp.
No. 102. Household delivery of daily and Sunday newspapers: 1959. June 3, 1960. 6 pp.
No. 103. Households and families, by type: 1960. July 6, 1960. 4 pp.

4559 U. S. Bureau of the Census.
Current Population Reports. Series P-28. Special censuses. Washington, 1947-.
No. 1275. Special censuses conducted by the Bureau of the Census between January 1 and March 31, 1960. May 24, 1960. 1 p.

4560 U. S. Bureau of the Census.
Current Population Reports. Series P-60. Consumer income. Washington, 1948-.
Nos. 1-32. See 26:Title 1496.
No. 34. Income of persons and families at record high in 1959. June 20, 1960. 2 pp.

4561 U. S. Bureau of the Census.
Historical statistics of the United States, colonial times to 1957; a Statistical abstract supplement. Prepared with the cooperation of the Social Science Research Council. [Washington, 1960]. xi, 789 pp.°

4562 U. S. National Office of Vital Statistics.
Monthly Vital Statistics Report. Provisional Statistics.
Vol. 8. No. 13. Annual summary for 1959. Part 1. Provisional vital statistics for the United States. April 25, 1960. 12 pp.
Part 2. Estimated numbers of deaths and death rates for selected causes: United States. Aug. 12, 1960. 31 pp.
Vol. 9, No. 6. Births, marriages, divorces, and deaths for June 1960. Causes of death for May 1960. Aug. 16, 1960. 8 pp.

4563 U. S. National Office of Vital Statistics.
Vital statistics of the United States 1958. Washington, 1960. In 2 vols.
Vol. I. Introduction and text tables. Tables for Alaska, Hawaii, Puerto Rico, and Virgin Islands. Marriage, divorce, natality, fetal mortality and infant mortality data. XIV, 458 pp.
Vol. II. Mortality statistics for the United States and each State. V, 714 pp.

4564 U. S. National Office of Vital Statistics.
Vital Statistics — Special Reports, Vol. 52. National Summaries. Washington, July 15, 1960-.
No. 1. Mortality from each cause: United

States, 1956-58. July 15, 1960. Pp. 1-34.

No. 2. Mortality from selected causes: United States and each State, and Alaska, Hawaii, Puerto Rico, and the Virgin Islands (U.S.), 1958. July 18, 1960. Pp. 35-56.

No. 3. Mortality: United States and each State, and Alaska, Hawaii, Puerto Rico, and the Virgin Islands (U.S.), 1958. July 25, 1960. Pp. 57-70.

No. 4. Mortality from selected causes: by age, race, and sex: United States, 1958. Aug. 8, 1960. Pp. 71-110.

4565 U. S. Bureau of Labor Statistics.

Employment and Earnings, including The Monthly Report on the Labor Force... Washington, July 1959-.

Annual supplement issue. Vol. 6, No. 11. May 1960. x, 147 pp. ["The current Annual Supplement Issue is the first since labor force data were added to the publication. Most of the tables of labor force statistics in the supplement section show complete monthly data for 1959, and all tables have annual averages for 1959. In addition, annual averages for 1957 and 1958 have been included in many of the tables."]

See 26:Title 3543 for previous citation.

4566 U. S. Bureau of Labor Statistics.

Special Labor Force Reports. No. 1-. Washington, Feb. 1960-. [Reports on special labor force subjects formerly covered in Series P-50 of the Bureau of the Census Current Population Reports.]

No. 1. Educational attainment of workers, 1959. By Arnold Katz. Reprint No. 2333 from the Monthly Labor Review 83(2):113-122. Feb. 1960. Supplementary material, pp. A-1 — A-13.

No. 2. Marital status of workers, 1959. By Jacob Schiffman. Preprint No. 2334 from the Monthly Labor Review 83(3):257-261. March 1960. Supplementary material, pp. 6-15.

No. 3. Unemployment and job mobility. By Robert L. Stein. Reprint No. 2335 from the Monthly Labor Review 83(4):350-358. April 1960. [Analysis of interrelations, using data from a Bureau of the Census survey for 1955, that excluded job shifting to a different community.]

No. 4. Labor force and employment in 1959. By Joseph S. Zeisel. Preprint No. 2336 from the Monthly Labor Review 83(5): 491-500. May 1960. Supplementary material, pp. A-1 — A-39. [This article "provides all of the data formerly available in the Annual Report on the Labor Force."]

No. 5. Employment of June 1959 high school graduates, October 1959. By Sophia Cooper. Reprint from the Monthly Labor Review 83(5):500-506. May 1960. Supplementary material, pp. A-1 — A-9.

4567 U. S. Department of Health, Education, and Welfare. Office of Program Analysis.

Health, Education, and Welfare Trends. 1960 edition. Washington, Govt. Printing Office, 1960. ix, 90 pp., processed.

A second annual statistical summary and the first made available to the general public. Demographic data include trends in age-sex composition, vital statistics, labor force size and composition, and population by educational age groups, 1900-1980.

[See also Titles 4331, 4354, 4356, 4357, 4372, 4516]

SOUTH AMERICA

Argentina

4568 Argentina. Dirección Nacional de Estadística y Censos.

Anuario estadístico de la Republica Argentina 1957 [Statistical yearbook of the Argentine Republic 1957]. Buenos Aires, 1959. XI, 403 pp.

Tables of population statistics for the years 1938-1957 concern estimated population movements, registered vital statistics, and external migration.

Colombia

4569 Colombia. Departamento Administrativo Nacional de Estadística. Distrito Especial de Bogotá.

Anuario estadístico 1958 [Statistical yearbook 1958]. Bogota, 1959. XIII, 342 pp.

Section on demography contains 48 tables on population size, nuptiality, natality, fetal mortality, mortality, in series of varying dates beginning between 1919 and 1948.

Ecuador

4570 Ecuador. Dirección General de Estadística y Censos.

Censo experimental de la ciudad de Quito, 1957 [Experimental census of the city of Quito, 1957]. Quito, 1959. 69 pp.

Text and tables presenting data on housing and population.

EUROPE

Belgium

4571 Belgium. Institut National de Statistique.
Statistique des causes de décès, 1958 [Statistics of causes of death, 1958]. Antwerp, Snel en Wel, Printers, 1960. 101 pp. Duplicate text in Flemish.

Denmark

4572 Denmark. Statistiske Departement.
Befolkningens bevaegelser 1958 [Vital statistics 1958]. Danmarks Statistik Statistiske Meddelelser 1960:2. Copenhagen, 1960. 79 pp. English titles.

France

4573 France. Institut National de la Statistique et des Etudes Economiques.
Recensement général de la population de mai 1954. Résultats statistiques. Population, ménages, logements, maisons [General census of population, May 1954. Statistical results. Population, households, lodgings, houses]. [Series of returns for the individual departments.] Paris, 1959-.
In addition to the returns for the departments cited in 26:Title 3556, those for the following were published in 1959; Aisne, Haute Loire, Haute Marne, Manche, Somme; and the following in 1960: Basses Alpes, Charente-Maritime, Côte-d'Or, Creuse, Dordogne, Doubs, Jura, Loir-et-Cher, Loiret, Nièvre, Orne, Pas-de-Calais, Saône-et-Loire, Vosges, Yonne.

Germany, Democratic Republic

4574 U. S. Joint Publications Research Service.
Translation and glossary of 1957 Statistical yearbook of the German Democratic Republic. JPRS:766-D. New York, 1959. lviii, 733 pp.°

Germany, Federal Republic

4575 Germany. Federal Republic. Mannheim. Statistisches Amt.
Vergleichende Städtestatistik süddeutscher Städte Jahresübersicht 1958 [Comparative urban statistics of South German cities for the year 1958]. Compiled and edited by the... for the Arbeitsgemeinschaft Süd im Verband Deutscher Städtestatistiker. Mannheim, April 1959. 18 pp. [text and tables]; [18] pp. full-page tables.

[See also Title 4072]

Hungary

4576 Hungary. Központi Statisztikai Hivatal.
Magyarország népesedése 1958 [Hungary's population 1958]. Statisztikai Időszaki Közlemények 33.kötet. Budapest, 1960. 385 pp. Russian and English titles.
See 26:Title 1523 for citation of 1957 volume.

4577 Hungary. Központi Statisztikai Hivatal. [Name of county] Megyei Igazgatóság.
[Name of county] megye fontosabb statisztikai adatai [Statistical yearbook issued by the (Name of county) County Directorate of the Central Statistical Office]. Vol. 1, 1956. Various places of publication, [1957].
Counties (and places of publication) for which such volumes have been issued: Bacs-Kiskun (Kecskemet); Borsod-Abauj-Zemplen (Miskolc); Csongrad (Hodmezovasarhely); Fejer (Szekesfehervar); Gyor-Sopron (Gyor); Hajdu-Bihar (Debrecen); Heves (Eger); Komarom (Tatabanya); Nograd (Salgotarjan); Pest (Budapest); Somogy (Kaposvar); Szolnok (Szolnok); Vas (Szombathely); Veszprem (Veszprem); Zala (Zalaegerszeg). County and city jointly (and place of publication): Baranya County and Pecs City (Pecs). City only: Szeged.°

[See also Titles 4139, 4144]

Italy

4578 Italy. Istituto Centrale di Statistica.
Annuario di statistiche sanitario 1957 [Yearbook of health statistics 1957]. Rome, 1960. 778 pp.
Part I deals with causes of death, Part II with causes of nati-mortality.

Malta

4579 Malta. Central Office of Statistics.
Vital statistics monthly report, January 1960. Valletta, 1960. ii, 8 pp., processed.
The first issue of a monthly statistical bulletin of demograpbic data. Tables: Estimated population at end of month by sex, showing natural increase and net migration during month; Live births by sex and stillbirths; Total deaths by sex and infant

deaths; Deaths by sex and age groups; Deaths by sex and main group of causes; New cases of, and deaths from, certain notifiable diseases; Road accidents; Marriages; Passenger movements: arrivals and departures by sea and air.

Netherlands

4580 Netherlands. Centraal Bureau voor de Statistiek.

[Vital statistics, migration and age distribution 1959]. Maandstatistiek van de Bevolking 8(7):102-128. July 1960.

Toeneming van de bevolking in de periode 1860-1959 in procenten van de bevolking op 31 december 1859 per gemeente [Increase of the population during the period 1860-1959 inclusive as a percentage of the population on December 31st 1859 per municipality]. Ibid. Insert map.

Northern Countries

4581 Nordic Committe on Social Welfare Statistics.

Social welfare statistics of the Northern Countries 1956 (1956/57). Translation of statistical reports of the Northern Countries, No. 6. Oslo, Fellestrykk A/S, 1960. 114 pp.

Sections, giving parallel statistics and notes for Denmark, Finland, Iceland, Norway, and Sweden, where relevant, include: Provisions for mothers and infants; Children's allowances; Marriage loans.

Portugal

4582 Portugal. Instituto Nacional de Estatística.

Anuário demográfico 1959. Annuaire démographique [Demographic yearbook 1959]. Lisbon, [1960]. XCVI, 242 pp.

Textual summary; retrospective and current tables.

Spain

4583 Spain. Instituto Nacional de Estadística.

Censo de la población de España y territorios de su soberania y protectorado, según el empadronamiento realizado el 31 de diciembre de 1950 [Census of population of Spain and the territories under its sovereignty and protection, according to the enumeration of December 31, 1950]. Madrid, 1952-.

Vols. I and II. See 21:Title 3411.

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4586 Yugoslavia. Savezni Zavod za Statistiku.

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4598 Japan. Welfare Ministry. Division of Health and Welfare Statistics.
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4590 Japan. Welfare Ministry. Division of Health and Welfare Statistics.
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4601 Korea. Bureau of Statistics.
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4607 Viet-Nam. Institut National de la Statistique.

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4610 Central African Republic. Service de la Statistique Générale. Mission Socio-Economique. Centre Oubangui.

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4612 Belgian Congo. Direction de la Statistique.

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4613 Central African Statistical Office.

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4615 Libya. Ministry of National Economy. Census Department.

General population census 1954. Report and tables. Tripoli, 1959. 8, XXII, 234 pp.

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4620 World Health Organization.

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GEOGRAPHICAL INDEX

NORTH AMERICA

Canada - 4114, 4364, 4368, 4401, 4402, 4481, 4522, 4554, 4555.
Costa Rica - 4096, 4170.
Guadeloupe - 4159.
Guatemala - 4514.
Haiti - 4361.
Mexico - 4046, 4048, 4140, 4163, 4480.
Puerto Rico - 4232, 4434, 4556.
United States:
General Population Studies and Theory- 4022, 4043, 4093, 4106, 4125.
Regional Population Studies - 4022, 4135, 4306, 4327, 4332, 4561.
Spatial Distribution - 4093, 4106, 4115, 4119, 4123, 4125, 4133, 4135, 4327, 4332, 4446, 4523, 4540.
Trends in Population Size - 4115, 4135, 4154, 4167, 4170, 4327, 4332, 4357, 4372, 4446, 4519, 4561, 4567.
Mortality - 4178, 4180, 4187, 4191, 4198, 4214, 4216, 4218, 4223, 4234, 4274, 4337, 4372, 4429, 4561, 4562, 4563, 4564.
Fertility and Natural Increase - 4135, 4264, 4265, 4270, 4274, 4276-4278, 4372, 4561.
Marriage, Divorce, and the Family - 4277, 4278, 4288, 4297, 4429, 4447, 4522, 4558.
International Migration - 4135, 4306, 4367, 4449, 4475, 4483.
Internal Migration - 4119, 4125, 4167, 4321, 4427, 4432, 4520, 4522.
Characteristics - 4022, 4135, 4167, 4306, 4327, 4331, 4332, 4337, 4346, 4354, 4356-4358, 4367, 4371-4373, 4417, 4418, 4430, 4432, 4434, 4443, 4446, 4519, 4520, 4522, 4558, 4560, 4565, 4566.
Demographic and Economic Interrelations - 4022, 4115, 4123, 4167, 4170, 4297, 4356, 4357, 4396, 4405, 4417-4419, 4427, 4429, 4430, 4432, 4434, 4520-4522, 4540, 4566.
Other Interrelations - 4043, 4277, 4278, 4443, 4446, 4447, 4449, 4450, 4521, 4522.
Policies - 4274, 4456, 4468, 4471, 4475, 4477, 4480, 4481, 4483.
Methods of Research and Analysis - 4167, 4214, 4275, 4373, 4522, 4538.
Organization and Administration - 4214, 4288, 4354, 4357, 4373, 4234, 4496, 4515, 4516, 4519, 4522, 4538, 4557.
Professional Meetings and Conferences - 4520-4523.
Bibliographies - 4471, 4522, 4538, 4540, 4544, 4559.
Official Statistics - 4331, 4354, 4356, 4357, 4372, 4516, 4557-4567.
Regions:
New England - 4157.
Northeast - 4119, 4327.
Southwest - 4373.
States:
Alaska - 4336.
Arizona - 4372.
California - 4167, 4250, 4498.
Connecticut - 4220, 4456, 4484.
Illinois - 4310.
Indiana - 4243.
Louisiana - 4128, 4131.
Maryland - 4332.
Massachussetts - 4456.
Michigan - 4145, 4146.
Minnesota - 4126, 4132.
New Jersey - 4164, 4417.
New Mexico - 4372.
New York State - 4331, 4343.
North Carolina - 4266, 4274.
Ohio - 4214.
Oklahoma - 4153, 4169, 4186, 4493.
Oregon - 4352.
Pennsylvania - 4181, 4194, 4234.
Tennessee - 4396, 4474.
Utah - 4129.
Washington - 4106, 4371.
West Virginia - 4257, 4427.
Wisconsin - 4446.
Cities:
Baltimore, Md. - 4256.
Brooklyn, N. Y. - 4109.
Chicago, Ill. - 4277, 4278.
Cincinnati, Ohio - 4277, 4278.
Kansas City, Mo. - 4218.
Philadelphia, Pa. p 4471.
Washington, D. C. - 4116.
Metropolitan Areas:
Chicago, Ill. - 4090, 4122, 4173.
San Francisco, Cal. - 4121, 4250.
Virgin Islands (U.S.) - 4434, 4564.
West Indies - 4239, 4382.

SOUTH AMERICA

Argentina - 4110, 4479, 4568.
Brazil - 4028, 4099, 4202, 4299, 4360.
British Guiana - 4287, 4294.
Chile - 4322.
Colombia - 4076, 4569.
Ecuador - 4244, 4366, 4514, 4570.

Peru - 4147.
Venezuela - 4219.

EUROPE

Europe - 4503.
Eastern Europe - 4026, 4365.
European Economic Community - 4304, 4453, 4476.
Northern Countries - 4581.
Western Europe - 4177, 4384, 4402, 4481,
Albania - 4070, 4176, 4347.
Austria - 4174, 4193, 4236.
Belgium - 4066, 4301, 4353, 4571.
Bulgaria - 4070, 4326, 4463, 4464.
Czechoslovakia - 4070, 4095, 4141, 4203, 4235, 4248, 4296, 4302, 4315, 4319, 4335, 4464.
Denmark - 4156, 4175, 4572, 4581.
Estonia - 4118.
Finland - 4170, 4414, 4581.
France - 4001, 4011, 4051, 4053, 4080, 4098, 4104, 4105, 4111, 4160, 4210, 4213, 4224, 4231, 4279, 4289, 4290, 4344, 4413, 4420, 4431, 4436, 4437, 4473, 4495, 4545, 4573.
Germany - 4185, 4189, 4222, 4333, 4403.
Germany, Democratic Republic - 4070, 4172, 4424, 4542, 4574.
Germany, Federal Republic - 4072, 4108, 4137, 4149, 4170, 4189, 4192, 4200, 4211, 4226, 4281, 4282, 4285, 4286, 4293, 4311, 4333, 4345, 4350, 4404, 4439, 4575.
Germany, West Berlin - 4073, 4222, 4225, 4227, 4247.
Greece - 4083.
Hungary - 4070, 4086, 4139, 4144, 4184, 4238, 4258, 4355, 4438, 4440, 4464, 4576, 4577.
Iceland - 4581.
Ireland - 4049, 4052, 4074, 4075, 4259, 4306.
Italy - 4027, 4045, 4079, 4094, 4165, 4197, 4199, 4206, 4242, 4314, 4330, 4338, 4351, 4400, 4410, 4442, 4578.
Malta - 4579.
Netherlands - 4033, 4102, 4170, 4195, 4482, 4532, 4580.
Norway - 4316, 4581.
Poland - 4047, 4055, 4063, 4070, 4190, 4207, 4312, 4325, 4403, 4423, 4425, 4452, 4462, 4464, 4469.
Portugal - 4100, 4299, 4472, 4582.
Romania - 4070, 4171, 4348, 4497.
Spain - 4134, 4196, 4260, 4583.
Sweden - 4058, 4062, 4082, 4130, 4162, 4168, 4204, 4217, 4230, 4272, 4323, 4341, 4342, 4517, 4581, 4584.
Switzerland - 4170.
United Kingdom:
Great Britain - 4059, 4179, 4209, 4388, 4458, 4470, 4547.
England and Wales - 4182, 4212, 4228, 4229, 4461.
England - 4306, 4324, 4433, 4468, 4585.
Wales - 4054.
Scotland - 4182, 4461.
Northern Ireland - 4074, 4470.
Yugoslavia - 4070, 4318, 4393, 4504, 4506, 4524, 4586-4588.

U. S. S. R.

U.S.S.R. - 4026, 4060, 4077, 4081, 4118, 4143, 4150, 4183, 4291, 4362, 4421, 4464-4466, 4508, 4510, 4511, 4518, 4534, 4536, 4537, 4543, 4546, 4548, 4589-4593.

ASIA

Asia - 4084, 4513.
Far East - 4513.
Southeast Asia - 4481, 4499.
Southern Asia - 4499, 4522.
Western Asia - 4481.
Burma - 4375.
Ceylon - 4298, 4381, 4594.
China - 4004, 4015, 4038, 4050, 4148, 4367, 4369.
China, People's Republic - 4026, 4064, 4097, 4152, 4422, 4464, 4595.
Cyprus - 4101.
India - 4069, 4161, 4166, 4233, 4241, 4245, 4246, 4249, 4251, 4261, 4309, 4313, 4375, 4376, 4378, 4381, 4441, 4451, 4455, 4457, 4459, 4460, 4525, 4550.
Iran - 4060, 4596.
Iraq - 4107.
Israel - 4252, 4308, 4349, 4370, 4390.
Japan - 4021, 4017, 4039, 4056, 4061, 4089, 4117, 4127, 4170, 4205, 4215, 4237, 4253, 4262, 4263, 4269, 4271, 4273, 4284, 4300, 4334, 4339, 4340, 4395, 4398, 4406, 4407, 4409, 4416, 4426, 4428, 4467, 4597-4599.
Jordan - 4359.
Korea - 4600-4602.
Lebanon - 4359.
Malaya - 4170.
North Borneo - 4078.
Pakistan - 4374, 4375, 4381, 4526.
Philippines - 4032, 4138, 4221, 4280, 4389, 4507, 4509.
Singapore - 4301, 4603-4605.
Taiwan - 4170.
Thailand - 4071, 4170, 4513, 4606.

United Arab Republic:
Syria - 4107, 4301, 4359.
Viet-Nam - 4607, 4608.

AFRICA

Africa - 4068, 4481, 4499.
Spanish Africa - 4091.
Tropical Africa - 4383, 4391.
Western Africa - 4383.
Algeria - 4437, 4609.
Angola - 4065.
Belgian Congo - 4085, 4113, 4158, 4255, 4305, 4611, 4612.
Central African Republic - 4610.
Congo Republic - See Belgian Congo.
Egypt - See United Arab Republic, Africa.
Federation of Rhodesia and Nyasaland:
Nyasaland - 4067, 4613, 4614.
French Equatorial Africa - See Central African Republic.
Kenya - 4328, 4377.
Liberia - 4448.
Libya - 4359, 4615.
Madagascar - 4068, 4088.
Mauritius - 4057, 4092, 4411.
Morocco - 4112.
Réunion - 4159.
Ruanda-Urundi - 4085, 4087.
Somaliland - 4541.
Sudan - 4512, 4616.
Togo - 4617.
Tunisia - 4151, 4363.
United Arab Republic:
Egypt - 4397.
Union of South Africa - 4124, 4208, 4317, 4415.

OCEANIA

Australia - 4103, 4155, 4170, 4306, 4307, 4481, 4499.
Hawaii - 4283, 4564, 4535.
Melanesia - 4140.
New Zealand - 4142, 4170, 4303, 4369, 4412, 4481, 4618.
Polynesia - 4068.
Western Samoa - 4140.

OTHER REGIONAL CLASSIFICATIONS

World - 4007, 4018, 4024, 4036, 4136, 4379, 4380, 4385-4387, 4408, 4444, 4445.
Intercontinental - 4007, 4016, 4037, 4041, 4170, 4188, 4201, 4205, 4240, 4320, 4379, 4380, 4385-4387, 4408, 4454, 4478, 4494, 4500, 4502, 4505, 4513, 4523, 4527, 4530, 4539, 4547, 4619, 4620.
American Nations - 4329.
Caribbean Area - 4295.
French Community - 4068.
Latin America - 4481, 4513, 4514, 4537.

AUTHOR INDEX

-A-

Aas, Dagfinn - 4316.
Achterstraat, J. - 4103.
Agarwala, S. N. - 4241, 4261.
Ahvenainen, E. K. - 4187.
Aird, John S. - 4064.
Algeria. Service de Statistique Générale - 4609.
Allan, T. M. - 4182.
Alsing, I. - 4175.
Alves Morgado, Nuno - 4065.
Amato, Vittorio - 4242.
American Association for the Advancement of Science. Seventh Conference on Scientific Manpower - 4521.
American Economic Association - 4520.
American Geographical Society - 4548.
American Medical Association. Council on Foods and Nutrition - 4385.
American Sociological Society - 4521.
American Statistical Association - 4522.
Amundson, Robert H. - 4475.
André, Jacques - 4045.
Anfre, Jean - 4104.
Anghene, M. - 4497.
Anglés, Cipriano - 4147.
Anwar, Aziz A. - 4374.
Aoki, Hisao - 4262, 4263.
Arbelo Curbelo, A. - 4196.
Archibugi, Franco - 4400.
Argentina. Dirección Nacional de Estadística y Censos - 4568.
Ariès, Philippe - 4001.
Aromin, Basilio B. - 4389.
Association of American Geographers - 4523.
Attal, Robert - 4363.
Australia. New South Wales. Cumberland County Council - 4155.

-B-

Babchuk, Nicholas - 4264.
Baer, Gabriel - 4359.
Bager, Rachel - 4156.
Baker, Paul T. - 4531.
Balevski, D. - 4326.
Ballester Ros, Ignacio - 4134.
Bansil, P. C. - 4375.
Bardhi, H. - 4176.
Barnett, Harold J. - 4444.
Bastide, Henri - 4011.
Bastié, Jean - 4105.
Bauvir, Louis - 4066.
Beattie, Walter M., Jr. - 4429.
Bedenić, Branko - 4504.
Belgian Congo. Direction de la Statistique - 4611, 4612.
Belgium. Institut National de Statistique - 4571.
Belgium. Ministère des Colonies - 4085.
Benjamin, Bernard - 4502, 4513.
Bennett, F. J. - 4208.
Berfenstam, R. - 4217.
Berg, Bea J. van den. - 4195.
Bergues, Hélène - 4001.
Berry, Brian J. - 4106.
Bertrand, Alvin L. - 4128.
Beshers, James M. - 4485.
Bettencourt, José de Sousa - 4299.
Bettison, David G. - 4067.
Beveridge, Ronald M. - 4310.
Bhouraskar, D. M. - 4455.
Bielecki, J. - 4486.
Bilbija, Zarko G. - 4090.
Biometrics Society - 4530.
Biraben, Jean-Noël - 4495.
Birkner, Hans - 4345.
Black, John D. - 4376.
Blanc, Robert - 4068.
Bloodworth, Jessie A. - 4371.
Bohidar, N. R. - 4522.
Borah, Woodrow W. - 4046, 4048.
Bosch-Marin, J. - 4196.
Bourgeois-Pichat, Jean - 4071.
Bowles, Gladys K. - 4327.
Brackett, James W. - 4171.
Bradley, William L. - 4456.
Braudel, Fernand - 4002.
Brazil. Conselho Nacional de Estatística. Laboratorio de Estatística - 4360.
Brichler, Marcel - 4105, 4503.
Brigham Young University - 4129.
Brookfield, H. C. - 4092.
Bruno, Vincenzo - 4197.
Brunsman, Howard G. - 4532.
Buquet, Léon - 4003.
Burch, Thomas R. - 4380.
Burkhardt, Felix - 4188.
Burtt, Everett J., Jr. - 4157.
Bussey, Ellen M. - 4476.

-C-

Calderone, Mary S. - 4278.
Calhoun, R. A. - 4243.
Camacho, Luis G. - 4244.
Canada. Department of Citizenship and Immigration - 4364.
Canada. Department of Labour - 4401.
Canada. Dominion Bureau of Statistics - 4555.
Carleton, Robert O. - 4522.
Carrier, N. H. - 4078.
Carroll, John J. - 4280.
Casey, R. C. D. - 4457.
Center for the Study of Democratic Institutions - 4468.
Central African Republic. Service de la Statistique Générale. Mission Socio Economique. Centre Oubangui - 4610.
Central African Statistical Office - 4613, 4614.
Ceylon. Department of Census and Statistics - 4594.
Ceylon. Department of Labour - 4298.
Chambers, J. D. - 4059.
Chandrasekhar, S. - 4069.
Chasteland, Jean-Claude - 4177.
Chavrid, Vladimir D. - 4522.
Chehabe Ed-Dine, Saïd - 4107.
Cherin, Gabriel - 4522.
Chesneaux, Jean - 4004.
Chiang Shan - 4015.
Chiaro, Adolfo del - 4005.
Chiassino, Giuseppe - 4199.
Chin, Tom D. Y. - 4218.
China. People's Republic. State Statistical Bureau - 4595.
Chmura, Julian - 4047.
Christiansen, John R. - 4129.
Ch'u Pao-yi - 4015.
Clemens, Helmut - 4108.
Collins, Selwyn D. - 4538.
Colombia. Departamento Administrativo Nacional de Estadística. Distrito Especial de Bogotá - 4569.
Combs, Jerry W., Jr. - 4070.
Community Council of Greater New York - 4109.
Community Research Associates, Inc. - 4484.
Connecticut. General Assembly. Interim Committee on Public Welfare and Humane Institutions - 4484.
Conover, Helen F. - 4541.
Cook, Sherburne F. - 4046, 4048.
Cooper, Sophia - 4566.
Corry, B. A. - 4006.
Coulter, Elizabeth J. - 4214.
Cousens, S. H. - 4049.
Cowhig, James D. - 4356.
Cox, Peter R. - 4007, 4209.
Curiel, Dario - 4219.

-D-

Dagnino Pastore, José M. - 4110.
Das Gupta, Ajit - 4233.
Datta, Nalinee - 4245.
Davidson, B. R. - 4377.
Davis, C. D. - 4220.
Davis, Elizabeth G. - 4540.
Davis, R. A. - 4221.
Dencker, F. - 4175.
De Sousa Bettencourt, José - 4299.
Denmark. Statistiske Departement - 4572.
Deutsche Akademie für Bevölkerungswissenschaft an der Universität Hamburg - 4008, 4009.
Dewey, Richard - 4010.
Doyle, Joseph B. - 4265.
Drewniak, Bogusław - 4403.
Driver, Edwin D. - 4251.
Duncan, Beverly - 4173.
Duncan, Otis Dudley - 4013, 4093.
Durand, John D. - 4050.
Duric, V. - 4524.

-E-

Eason, Warren W. - 4421.
Eckoldt, G. - 4222.
Eckstein, Alexander - 4422.
Economist. London - 4458.
Ecuador. Dirección General de Estadística y Censos - 4570.
Enequist, Gerd M. - 4130.
Enke, Stephen - 4378, 4459.
Enterline, Philip E. - 4223.
Epstein, Fritz T. - 4542.
Epstein, Lenore A. - 4434.
Ericson, Anna-Stina - 4402.
Eugenics Society - 4487.
European Society for Rural Sociology - 4549.

-F-

Fabri, Marcel - 4158.
Falk Project for Economic Research in Israel - 4390.
Family Planning Association of India - 4460, 4525.
Family Planning Association of Pakistan - 4526.
Febvay, Maurice - 4160.
Feshbach, Murray - 4518.
Feversham, Earl of - 4461.
Figueiredo, Aureo Pinto de - 4360.
Flowers, C. E., Jr. - 4266.
Forbes, R. J. - 4387.
Fourastié, Jean - 4436.
France. Direction de la Documentation - 4135.
France. Institut National d'Etudes Démographiques - 4071, 4148, 4246.
France. Institut National de la Statistique et des Etudes Economiques - 4159, 4160, 4224, 4344, 4391, 4573, 4619.
France. Institut National de Statistique et des Etudes Economiques. Direction Régionale de Paris - 4111.
France. Ministère de la France d'Outre Mer. Service des Statistiques - 4619.
France. Service des Affaires Musulmanes et de l'Action Sociale - 4437.
Franchi, Jean - 4112.
Fraser, F. C. - 4254.
Freudenberg, Karl - 4189, 4225.
Fuller, James S. - 4498.
Fürst, Gerhard - 4345.

-G-

Gabriel, K. R. - 4252.
Galindo, L. - 4232.
Gedanken, Irving - 4519.
Genetical Research - 4551.
George, Pierre - 4136, 4379, 4527.
Germany. Democratic Republic. Staatliche Zentralverwaltung für Statistik - 4574.
Germany. Federal Republic. Mannheim. Statistisches Amt. - 4575.
Germany. Federal Republic. Statistisches Bundesamt - 4072, 4137, 4149, 4200, 4226, 4281, 4285, 4286, 4311, 4404.
Germany. Federal Republic. Statistical Office - 4285.
Germany. West Berlin. Statistisches Landesamt - 4073, 4227, 4247.
Gibbons, William J. - 4267, 4380.
Giese, Hans - 4268.
Girard, Alain - 4011, 4210.
Giurovitch, G. - 4094.
Gjukić, Mirjana - 4504.
Gleiss, J. - 4211.
Glick, Paul C. - 4522.
Gnanasekaran, K. S. - 4161.
Goldsmith, Selma F. - 4346.
Gonnet, P. - 4051.
Gordon, Margaret S. - 4405.
Gorokhoff, Cecilia J. - 4537.
Gorrie, R. Maclagan - 4381.
Great Britain. Central Office of Information - 4470.
Great Britain. Home Office, England and Wales, and Scottish Home Department - 4461.
Great Britain. Ministry of Health - 4228, 4229.
Greco, George - 4147.
Grounds, J. G. - 4328.
Gulbrandsen, Odd - 4162, 4323.
Gutman, Robert - 4012.

-H-

Hagen, Everett E. - 4392.
Halbwachs, Maurice - 4013.
Halevi, H. S. - 4365.
Hallgren, Bertil - 4341, 4342.
Hultgren, Gösta - 4230.
Hama, Hidehiko - 4138, 4300.
Hammons, Helen - 4014.
Hanes, John W., Jr. - 4477.
Hansen, Morris H. - 4522.
Harewood, Jack - 4382.
Harrison, G. A. - 4533.
Harrison, John A. - 4089.
Harte, Thomas J. - 4496.
Hathaway, Dale E. - 4520.
Hauser, Philip M. - 4173, 4445.
Hawaii. State Planning Office - 4535.
Hawley, Marion H. - 4347.
Hayashi, Shigeru - 4253, 4406.
Hayoun, Joseph - 4160.
Heady, J. A. - 4212.
Hegarty, Edward J. - 4074.
Henry, Louis - 4001, 4016, 4246, 4488.
Herer, W. - 4423.
Hill, Jeanie - 4493.
Hirzel, Robert K. - 4119.
Ho Chien-chang - 4015.
Hoen, P. C. A. 't - 4532.
Holyst, B. - 4462.
Holzer, J. - 4312.
Honda, Tatsuo - 4269, 4407.
Hong Liang-Ki - 4004. See also Hung Liang-Chi.
Honohan, W. A. - 4075.
Hornseth, Richard A. - 4522.
Hugon, Jean - 4255.
Hulse, Frederick S. - 4531.
Hung Liang-Chi - 4038. See also Hong Liang-Ki.
Hungary. Központi Statisztikai Hivatal - 4139, 4576.
Hungary. Központi Statisztikai Hivatal. [Name of county] Megyei Igazgatosag - 4577.
Hutchison, Robert S. - 4474.
Huxley, Julian - 4024.

-I-

India. Assam. Department of Economics and Statistics - 4309.
India. Directorate-General of Health Services - 4550.
Institute for the Study of the U.S.S.R. - 4536.
Instituto Ecuatoriano de Antropología y Geografía - 4366.
Interamerican Statistical Institute - 4329.
International Labour Office - 4301, 4408.
International Statistical Institute - 4528, 4529.
International Union of Biological Sciences - 4530.
International Union for the Scientific Study of Population - 4008, 4016.
Iragorri V, José M. - 4076.
Iran. Ministry of Interior. Public Statistics Cooperative Organization - 4596.
Iscovici, Paul - 4348.
Israel. Central Bureau of Statistics - 4349.
Israelsson, B. - 4489.
Italy. Centro di Documentazione - 4478.
Italy. Istituto Centrale di Statistica - 4578.

-J-

Jacobson, Benjamin D. - 4270.
Japan. Bureau of Statistics - 4597.
Japan. Welfare Ministry. Division of Health and Welfare Statistics - 4598, 4599.
Japan. Welfare Ministry. Institute of Population Problems - 4017.
Jarvik, Lissy F. - 4198.
Jayawardena, C. - 4287, 4294.
John, A. H. - 4059.
Johnson, D. Gale - 4520.
Johnson, James H. - 4052.
Johnston, Bruce F. - 4383.
Josífko, Marcel - 4335.

-K-

Kaigl, Vl. - 4302.
Kantner, John F. - 4077.
Karnatak University. Department of Social Anthropology - 4552.
Katz, Arnold - 4566.
Keilin, S. L. - 4183.
Kelly, George A. - 4018.
Kelso, Alec J. - 4447.
Keyfitz, Nathan - 4522.
Kislégi Nagy, Dénes - 4019.
Kloepfer, H. Warner - 4020.
Knauer, Arnold - 4424.
Knobloch, Hilda - 4256.
Kobayashi, Kazumasa - 4140, 4313.
Koblenzer, P. J. - 4078.
Kochanovskov, Ivan - 4141.
Koller, S. - 4350.
Kono, Shigemi - 4409.
Konstantinov, G. F. - 4593.
Kordos, J. - 4425.
Korea. Bureau of Statistics - 4600, 4601.
Korea. Ministry of Health and Social Affairs - 4602.
Kovacsics, Josef - 4086.
Koya, Tomohiko - 4271.
Koya, Yoshio - 4271.
Krinchev, Kh. - 4463.
Krysztofowicz, I. - 4190.
Kulcsár, Kálmán - 4438.
Kurodo, Toshio - 4021.
Kuznets, Simon - 4022.

-L-

Lacognata, Angelo - 4264.
Ladurie, Emmanuel L. - 4053.
Lamartine Yates, Paul - 4384.
Lamser, Václav - 4095.
Lanne, T. - 4217.
Larsson, Folke - 4517.
Lasker, Gabriel W. - 4531.
Laughlin, W. S. - 4336.
Laws, Donald F. - 4332.
Ledermann, Sully - 4201, 4213, 4231.
Lee, Rose Hum - 4367.
Lenton, Lloyd - 4368.
Lenzi, Romolo - 4410.
Leonard, William R. - 4505.
Lestapis, S. de, - 4023.
Leurquin, Philippe - 4087.
Lewis, E. D. - 4054.
Libya. Ministry of National Economy. Census Department - 4615.
Lichtenberg, F. - 4232.
Lim Joo Hock - 4605.
Lin Shen-mu - 4015.
Lindahl, Jan - 4272.
Liu, B. A. - 4490.
Livingstone, Frank B. - 4448, 4531.
Locke, Ben Z. - 4449.
Loenig, Elizabeth - 4543.
London County Council - 4585.
Louisiana Agricultural Experiment Station, Baton Rouge - 4128.
Loyo, Gilberto - 4163.
Luce, R. W. - 4411.
Lux, André - 4113.

-M-

McCamman, Dorothy - 4430.
Mackensen, Rainer - 4439.
McMahan, C. A. - 4178.
Macura, Milos - 4393, 4506.
Madagascar. République Malgache [Malagasy Republic] - 4088.
Maddox, James G. - 4520.
Mahalanobis, P. C. - 4451.
Mahler, Raphael - 4055.
Maisel, Sherman J. - 4288.
Maitland, Sheridan T. - 4356.
Makanas, Elpidio D. - 4507.
Malthus, Thomas R. - 4024.
Malta. Central Office of Statistics - 4579.
Malzberg, Benjamin - 4343.
Malý, Vladimír - 4335.
Mancuso, Thomas F. - 4214.
Marfaing, Jean L. - 4028.
Marshall, J. T. - 4522.
Martin, L. V. - 4179, 4209.
Martin, Margaret E. - 4522.
Martin, Yves - 4114.
Mauldin, W. Parker - 4464.
Mauritius. Legislative Council - 4411.
Mayer, Jean - 4158.
Mazzoleni, Giuseppe P. - 4314, 4330, 4351.
Medawar, P. B. - 4025.
Mendras, Henri - 4324.
Metropolitan Life Insurance Company - 4180, 4337.
Metz, Bernard - 4231.
Michel, Andrée - 4289, 4290.
Middleton, Russell - 4522.
Miklasz, Constant - 4452.
Milbank Memorial Fund - 4026.
Mills, Wilson R. - 4115.
Minakawa, Yuichi - 4056.
Minami, Ryozaburo - 4394.
Mincer, Jacob - 4520.
Minkov, M. - 4326.
Mironenko, Y. P. - 4508.
Mirville, Solon - 4361.
Mitra, Subodh - 4233.
Mód, Aladárné - 4440.
Molina, V. - 4338.
Mookherji, Sudhansu B. - 4057.
Morgado, Nuno Alves - 4065.
Morin, Francis - 4279.
Moriyama, Iwao M. - 4191, 4234.
Morris, Morris D. - 4441.
Mortara, Giorgio - 4027, 4028, 4079, 4202.
Motulsky, Arno G. - 4531.
Mourant, A. E. - 4029.
Mueller, H. - 4192.
Muhsam, H. V. - 4491.
Muramatsu, Minoru - 4273.

-N-

National Capital Planning Commission - 4116.
National Capital Regional Planning Council - 4116.
National Committee on Maternal Health, Inc. - 4539.
Nederlandse Vereniging voor Economische en Sociale Geografie - 4532.
Nelson, Richard R. - 4395.
Netherlands. Centraal Bureau voor de Statistiek - 4580.
New Jersey. Department of Conservation and Economic Development. Division of Planning and Development - 4164.
New York State. Division of Employment - 4331.
New Zealand. Department of Labour - 4303, 4412.
New Zealand. Department of Statistics - 4618.
New Zealand. Ministry of Works. Town and Country Planning Branch - 4142.
Newth, J. A. - 4291.
Nevett, Albert - 4030.
Ng Bickleen Fong - 4369.
Nicholls, William H. - 4396.
Nikonchik, O. K. - 4465.

Nilsen, Norman O. - 4352.
Nimkoff, M. F. - 4522.
Nordic Committee on Social Welfare Statistics - 4581.
Nordström, Olof - 4058.
Norton, J. W. R. - 4274.
Nour, Mustafa M. - 4397.
Nunley, Robert E. - 4096.

-O-

Ochoa, Elena de - 4119.
Ogino, Shimako - 4215.
Okasaki, Ayanori - 4117, 4466.
Okinshevich, Leo A. - 4537.
Oregon. Bureau of Labor. Research and Information Division - 4352.
Orel, H. - 4193.
Orleans, Leo A. - 4097.
Osborn, Frederick - 4024.

-P-

Paillat, Paul - 4431.
Panero, Mario - 4165.
Patterson, David - 4308.
Pavlik, Z. - 4315.
Penculescu, Gh. - 4497.
Pennell, Maryland Y. - 4538.
Pennsylvania. Department of Health - 4181.
Penrose, Lionel S. - 4031.
Perez, Bernardino A. - 4032.
Petersen, William - 4033.
Petrilli, Giuseppe - 4304.
Pfautz, Harold W. - 4013.
Philadelphia Housing Association - 4471.
Philippines. Manila Health Department - 4221.
Philippines. 1960 Census - 4509.
Phillipps, E. J. - 4604.
Pihlblad, C. T. - 4316.
Pinchemel, Philippe - 4098.
Podlaska, Z. - 4248.
Pohoski, M. - 4325.
Pontanus, Fernand - 4353.
Poole, T. R. - 4257.
Population Reference Bureau, Inc. - 4292.
Portugal. Instituto Nacional de Estatística - 4582.
Portugal. Ministerio das Obras Publicas. Direcção-Geral dos Serviços de Urbanização - 4472.
Potter, Robert G., Jr. - 4275, 4276.
Powesland, P. G. - 4317.
Prais, S. J. - 4349.
Pressat, Roland - 4080, 4413.
Pressnell, L. S., - 4059.
Price, Paul H. - 4131.
Ptukha, M. V. - 4510.
Puerto Rico. Bureau of Labor Statistics - 4556.
Pulkkinen, Terho - 4414.
Purshottam, N. - 4525.

-Q-

Quensel, C.-E. - 4492.
Querido, A. - 4387.

-R-

Radkovský, Josef - 4235.
Rainwater, Lee - 4277, 4278.
Ramharter, F. - 4236.
Randenborgh, Horst van - 4281, 4282.
Rea, T. - 4118.
Rees, Brian - 4433.
Réthási, Miklós - 4258.
Review of the River Plate - 4479.
Reynolds, Earle E. - 4531.
Riallin, Jean-Louis - 4467.
Riquet, R. P. Michel - 4001.
Roberts, D. F. - 4533.
Roberts, J. A. Fraser - 4034.
Roessingh, H. K. - 4035.
Rohrer, Wayne C. - 4119, 4327, 4332.
Roof, Michael K. - 4150.
Rose, J. H. - 4522.
Rosset, Edward - 4036.
Rossillion, Pierre - 4473.
Rousseaux, Réné - 4305.
Růžička, Ladislav - 4303.

-S-

Sadie, J. L. - 4415.
Sagen, Oswald K. - 4522.
Saharouni, Suren - 4060.
St. John-Stevas, Norman - 4468.
Salamon, Lajos - 4184.
Sandler, E. - 4259.
Santos, Milton - 4099.
Sarc, Omer C. - 4120.
Sato, Yasuko - 4237.
Sauvy, Alfred - 4001, 4004, 4037, 4148, 4453.
Schiffman, Jacob - 4566.
Schmelz, Oskar - 4370.
Schmitt, Robert C. - 4283.
Schrader, K. M. - 4185.
Schubnell, Hermann - 4293.
Schwarz, Karl - 4137, 4311, 4333.
Schwenk, Heinz - 4009.
Scott, Mel - 4121.
Scruggs, Otey M. - 4480.
Selegen, Galina V. - 4081, 4511.
Sekiyama, Naotaro - 4061.
Seklandi, Mahmoud - 4151.
Seppilli, Tullio - 4442.
Shackleford, J. H. - 4186.
Shanthamma, N. S. - 4166.
Sharpe, Evelyn - 4547.

Sheldon, Henry D. - 4443, 4522.
Shimamura, Toshihiko - 4306, 4416.
Shimkin, Demitri B. - 4143.
Shinichiro, Takukura - 4089.
Shinozaki, Nobuo - 4339, 4340.
Shipley, Paul W. - 4498.
Shrikhande, S. M. - 4525.
Siam. Central Statistical Office. Office of the National Economic Development Board - 4606.
Silberman, Leo - 4038.
Simoons, Frederick J. - 4512.
Singapore. Immigration Department 4605.
Singapore. Legislative Assembly - 4603.
Singapore. [Registry General] - 4604.
Sjögren, Torsten - 4341.
Smith, Georgina M. - 4417.
Smith, R. T. - 4294.
Smith, T. E. - 4499.
Smith, W. S. - 4259.
Sobajic, P. - 4318.
Social Science Research Council - 4561.
Society for the Study of Fertility - 4259, 4553.
Society for the Study of Human Biology - 4533.
Society of Actuaries - 4337.
Solien, Nancie L. - 4295.
Solly, Marion W. - 4132.
Solomon, Ezra - 4090.
Spain. Dirección General de Plazas y Provincias Africanas e Instituto de Estudios Africanos - 4091.
Spain. Instituto Nacional de Estadística - 4583.
Spain. Ministerio de Trabajo - 4481.
Spiegelman, Mortimer - 4432.
Srb, V. - 4296, 4319.
Stanbery, Van Beuren - 4167.
Steigenga-Kouwe, Suzanne E. - 4532.
Stein, Robert L. - 4566.
Sterling, Theodor D. - 4450.
Stewart, Charles T., Jr. - 4320.
Stpiczynski, T. - 4312.
Sudan. Ministry for Social Affairs, Population Census Office - 4616.
Sutter, Jean - 4001, 4279.
Sventoň, Ján - 4302.
Swanson, Helen - 4354.
Sweden. Statistiska Centralbyrån - 4082, 4168, 4204, 4584.
Sweetser, Frank L. - 4157.
Szabady, Egon - 4144, 4238.

-T-

Tachi, Minoru - 4205, 4398.
Taeuber, Conrad - 4522.
Taeuber, Irene B. - 4039, 4152, 4522.
Taeuber, Karl E. - 4522.
Takagi, Naobumi - 4284.
Takes, C. A. P. - 4532.
Tartakower, Ariel - 4055.
Tarver, James D. - 4153, 4169, 4493.
Tennessee. General Assembly. Legislative Council Committee - 4474.
Thaden, John F. - 4145, 4146.
Théodore, Gérard - 4068.
Thirring, Lajos J. - 4355.
Thomas, Edwin N. - 4122.
Thomas, Dorothy S. - 4022.
Thompson, J. W. - 4040.
Thompson, Warren - 4385.
Tibbitts, Clark - 4443.
Tietze, Christopher - 4539.
Tinbergen, J. - 4387.
Tobata, Seiichi - 4426.
Togo. [Service Statistique.] - 4617.
Townsend, Peter - 4433.
Toynbee, Arnold - 4386.
Truesdell, Leon E. - 4357.

-U-

Ueda, Masao - 4249, 4334.
U.S.S.R. Daghestan A.S.S.R. Statischeskoe Upravlenie Dagestanskoi ASSR - 4590.
U.S.S.R. Ministerstvo Zdravookhraneniia. Otdel Meditsinskoi Statistiki - 4593.
U.S.S.R. TSentral'noe Statisticheskoe Upravlenie - 4534, 4589.
U.S.S.R. Ukrainian S.S.R. [Name of Oblast.] Statisticheskoe Upravlenie - 4591, 4592.
United Nations. Economic Commission for Latin America - 4514.
United Nations. Economic and Social Council - 4170, 4454, 4513.
United Nations. Population Commission - 4041.
United Nations. Statistical Office.- 4494.
U. S. Agricultural Marketing Service - 4123, 4356.
U. S. Bureau of the Census - 4154, 4171, 4172, 4357, 4515, 4518, 4557, 4558, 4559, 4560, 4561.
U. S. Bureau of Employment Security - 4519.
U. S. Bureau of Indian Affairs - 4317, 4372.
U. S. Bureau of Labor Statistics - 4419, 4427, 4565, 4566.
U. S. Bureau of Old-Age and Survivors Insurance - 4321.
U. S. Congress. House. Committee on the Judiciary - 4583.
U. S. Congress. House. Committee on Post Office and Civil Service - 4516.
U. S. Congress. Joint Economic Comittee - 4398, 4419.
U. S. Department of Agriculture - 4128, 4129, 4540.
U. S. Department of Health, Education, and Welfare. Office of Program Analysis - 4567.

U. S. Department of Labor - 4358.
U. S. Joint Publications Research Service - 4574, 4592, 4593.
U. S. Library of Congress. General Reference and Bibliography Division - 4541, 4542.
U. S. Library of Congress. Hispanic Foundation - 4537.
U. S. Library of Congress. Slavic and Central European Division - 4537.
U. S. National Office of Vital Statistics - 4562-4564.
U. S. Office of Area Development - 4123.
U. S. Public Health Service - 4538, 4544.
U. S. Public Health Service. Russian Scientific Translation Program - 4543.
U. S. Social Security Administration - 4434.
U. S. Social Security Administration. Bureau of Public Assistance - 4297.
Universidad de Chile. Instituto de Economía - 4322.
Universidade de Coimbra. Centro de Estudos Geográficos - 4100.
Università di Palermo. Scuola di Statistica - 4206.
Université de Bordeaux. Faculté de Droit et des Sciences Economiques - 4545.
Université Laval. Faculté des Sciences Sociales. Département de Sociologie - 4554.
Universiteit van Amsterdam - 4387.
University of Chicago. Chicago Community Inventory - 4174.
University of Glasgow. Department for the Study of the Social and Economic Institutions of the U.S.S.R. - 4546.
University of Natal, Pietermaritzburg. Institute for Social Research, Durban - 4124.
University of the Philippines. Institute of Hygiene - 4221.
University of Wisconsin. Bureau of Government. University Extension Division - 4446.
Utah Agricultural Experiment Station - 4129.
Utterström, Gustaf - 4062.
Uttley, K. H. - 4239.

-V-

Valaoras, Vasilios G. - 4083.
Van Campen, Joseph - 4482.
Vance, James E., Jr. - 4125.
Vaumas, Etienne de - 4101.
Venstra, A. J. - 4532.
Vereinigung Österreichischer Industrieller - 4173.
Vernon, Stanley H. - 4272.
Vielrose, Egon - 4063, 4207.
Viet, Jean - 4547.
Viet-Nam. Institut National de la Statistique - 4607, 4608.
Vildosola, Jerjes - 4244.
Villa Rodríguez, Luciano de la - 4260.
Villard, Henry H. - 4399.
Vimont, Claude - 4420.
Vinyard, John H., Jr. - 4194.
Vobornik, Bohumil - 4435.
Vysušilvoá, D. - 4319.

-W-

Waddington, C. H. - 4042.
Wang, Nai-chi - 4152.
Webb, John W. - 4126.
Weinstein, Karol K. - 4277, 4278.
Weiss, Eric J. - 4352.
Welsenes, C. van - 4532.
Westoff, Charles F. - 3043.
Whitelaw, M. James - 4250.
Whitney, Vincent H. - 4133.
Wiarda Beckman Stichting. [Wiarda Beckman Foundation] - 4102.
Wibberley, G. P. - 4388.
Widstam, Ture - 4230.
Wiesler, Hans - 4084.
Wilkinson, Thomas O. - 4428.
Williams, Roger J. - 4044.
Winkler, Wilhelm - 4008, 4016.
Winnie, William W., Jr. - 4373.
Winsemius, J. - 4532.
Wisconsin County Boards Association - 4446.
Wolinska, H. - 4469.
World Health Organization - 4240, 4500, 4620.
Wynnyczuk, V. - 4296.
Wyon, John B. - 4525.

-X, Y, & Z-

Yamaguchi, Kiichi - 4127.
Yates, R. J. - 4377.
Young, Robert W. - 4372.
Yugoslavia. Savezni Zavod za Statistiku - 4586-4588.
Zachariah, K. C. - 4513.
Zalokar, J. B. - 4216.
Zatko, James J. - 4362.
Zeisel, Joseph S. - 4566.
Ziemkiewicz, W. - 4501.
Zubrzycki, J. - 4307.

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COMPLETE EXPECTATION OF LIFE ($\mathring{e}_x$) AT VARIOUS AGES IN SELECTED COUNTRIES /a

These figures are the most recent available since 1939 and are, with some exceptions, for countries with populations of 100,000 or more. No adjustment has been made for deficiencies, which in some cases may be serious. Unless otherwise noted the figures were taken from publications of the United Nations Statistical Office, which present mainly data officially submitted by governments.

Country	Years	Sex	Age					
			0	1	10	20	40	60
North America								
Barbados /1	1945-47	M	49.17	57.43	51.82	42.66	26.05	13.23
		F	52.94	61.64	55.80	46.79	30.39	15.80
British Honduras /2...	1944-48	M	44.99	50.48	46.86	38.78	25.29	13.18
		F	48.97	54.29	49.95	42.18	29.22	15.94
Canada	1950-52	M	66.33	68.33	60.15	50.76	32.45	16.49
		F	70.83	72.33	64.02	54.41	35.63	18.64
Costa Rica	1949-51	M	54.65	59.97	55.59	46.50	29.70	14.85
		F	57.05	61.58	57.22	48.00	31.21	15.84
El Salvador	1949-51	M	49.94	54.31	52.85	44.48	30.24	16.94
		F	52.40	56.35	54.99	46.50	31.53	17.40
Guadeloupe and Martinique /3	1951-55	M	55.4	58.1	52.1	42.8	26.4	13.8
		F	59.2	61.4	55.4	46.1	30.3	16.5
Guatemala.....	1949-51	M	43.82	48.28	48.56	41.08	26.86	14.73
		F	43.52	47.17	47.68	40.27	26.94	14.26
Jamaica (ex. dep.)	1950-52	M	55.73	59.85	54.46	45.26	28.63	14.30
		F	58.89	62.42	56.68	47.74	31.45	16.49
Leeward Islands.....	1946	M	49.53	55.03	50.17	41.19	26.06	-
		F	54.76	59.58	54.44	45.63	29.90	-
Mexico /b	1950	M	46.67	52.35	51.12	42.73	28.24	15.32
		F	49.85	54.92	54.36	45.80	30.38	15.96
Panama /4	1952-54	M	60.41	63.31	57.87	48.98	31.88	16.76
		F	63.09	65.78	60.29	51.34	34.70	19.15
Trinidad and Tobago ..	1954-56	M	59.81	63.17	55.67	46.22	28.43	13.53
		F	63.13	65.81	58.15	48.79	31.62	16.51
U. S., Continental /5c.	1958	M	66.4	67.5	59.0	49.4	31.1	15.6
		F	72.7	73.5	64.9	55.2	36.2	19.1
Whites /c	1958	M	67.2	68.1	59.5	50.0	31.5	15.7
		F	73.7	74.2	65.6	55.9	36.7	19.2

Complete Expectation of Life ($\mathring{e}_x$) at Various Ages in Selected Countries (Continued)

Country	Years	Sex	Age 0	1	10	20	40	60
U. S. (continued)								
Nonwhites /c	1958	M	60.6	62.8	54.5	45.0	28.0	14.5
		F	65.5	67.3	59.0	49.3	31.5	17.4
South America								
Argentina	1947	M	56.9	61.7	54.7	45.6	28.2	13.8
		F	61.4	65.7	58.7	49.6	32.4	16.5
Bolivia	1949-51	M	49.71	56.11	54.79	46.99	33.40	20.39
		F	49.71	55.92	54.79	47.23	32.89	19.20
Brazil /6	1940-50	M	39.3	-	44.6	37.9	24.3	12.5
		F	45.5	-	-	-	-	-
British Guiana /7	1945-47	M	49.32	53.66	47.63	38.71	23.03	11.13
		F	52.05	55.89	49.79	41.32	27.30	14.18
Chile	1952	M	49.34	56.83	51.39	42.67	27.25	13.99
		F	53.89	60.62	55.71	47.08	31.33	16.42
Venezuela /d	1950-51	M	56.34	60.54	55.11	46.18	29.84	15.70
		F	58.76	62.37	57.29	48.29	32.27	17.48
Europe								
Austria	1949-51	M	61.91	65.90	58.02	48.68	30.74	15.12
		F	66.97	70.09	62.15	52.62	34.20	17.27
Belgium	1946-49	M	62.04	65.25	57.36	48.02	30.61	15.45
		F	67.26	69.72	61.71	52.27	34.20	17.45
Czechoslovakia /e	1958	M	67.23	68.51	60.11	50.59	32.10	15.75
		F	72.30	73.15	64.64	54.90	35.79	18.22
Denmark (ex. Faeroes)	1951-55	M	69.87	71.16	62.74	53.09	34.38	17.50
		F	72.60	73.35	64.78	54.99	35.89	18.44
Finland	1951-55	M	63.4	64.7	56.5	47.0	29.2	14.1
		F	69.8	70.9	62.5	52.8	34.2	16.9
France /f	1958	M	67.0	68.1	59.6	50.0	31.8	15.9
		F	73.4	74.2	65.7	56.0	36.9	19.5
Germany								
Democratic Rep.	1956-57	M	66.34	68.96	60.81	51.28	32.85	16.23
		F	70.03	72.98	64.59	54.85	35.96	18.46
Federal Rep. /g (ex. Saar)	1957-58	M	66.21	68.00	59.63	50.12	31.78	15.44
		F	71.34	72.68	64.19	54.44	35.42	17.91
Hungary	1955	M	64.96	68.31	60.11	50.64	32.28	15.88
		F	68.87	71.43	63.19	53.51	34.73	17.49
Iceland	1941-50	M	66.1	67.4	59.5	50.5	34.3	18.2
		F	70.3	71.3	63.2	54.0	36.5	19.6

Complete Expectation of Life ($\mathring{e}_x$) at Various Ages in Selected Countries (Continued)

Country	Years	Sex	Age 0	1	10	20	40	60
Ireland	1950-52	M	64.53	66.88	58.81	49.31	31.31	15.40
		F	67.08	68.80	60.61	51.15	33.28	16.83
Italy	1954-57	M	65.75	68.54	60.53	51.04	32.52	16.23
		F	70.02	72.43	64.37	54.68	35.76	18.20
Luxembourg	1946-48	M	61.69	65.17	57.36	48.04	30.26	15.08
		F	65.75	68.59	60.78	51.51	33.43	16.87
Netherlands	1953-55	M	71.0	71.8	63.4	53.7	34.8	17.8
		F	73.9	74.3	65.7	56.0	36.7	18.9
Norway	1951-55	M	71.11	71.95	63.65	54.11	35.54	18.52
		F	74.70	75.21	66.72	56.96	37.79	19.93
Poland	1955-56	M	61.6	66.3	58.4	49.0	31.0	15.2
		F	67.4	71.0	63.0	53.4	34.9	17.8
Portugal	1957-58	M	59.8	64.9	58.9	49.4	31.4	15.4
		F	65.0	69.7	63.7	54.1	35.5	18.1
Spain	1950	M	58.76	63.12	56.54	47.50	36.65	15.18
		F	63.50	67.63	61.16	52.03	34.55	17.69
Sweden /h	1958	M	71.38	71.84	63.31	53.72	34.86	17.55
		F	74.63	74.81	66.15	56.38	37.06	19.23
Switzerland	1948-53	M	66.36	67.81	59.64	50.16	31.88	15.69
		F	70.85	71.86	63.55	53.86	35.02	17.77
United Kingdom								
England and Wales	1958	M	67.95	68.71	60.12	50.46	31.51	15.07
		F	73.69	74.16	65.50	55.68	36.45	18.93
Northern Ireland	1956-58	M	67.55	68.71	60.16	50.47	31.56	15.33
		F	71.79	72.72	64.07	54.26	35.13	17.79
Scotland	1958	M	66.22	67.34	58.78	49.13	30.33	14.39
		F	71.35	72.13	63.52	53.72	34.68	17.59
Yugoslavia	1952-54	M	56.92	63.47	57.54	48.29	30.56	14.93
		F	59.33	65.32	59.65	50.41	32.86	16.41
U. S. S. R.	1955-56	M	63	-	-	-	-	-
		F	69	-	-	-	-	-
Asia								
Cambodia /8	1958-59	M	44.2	49.6	47.6	39.4	27.5	14.5
		F	43.3	48.5	46.4	38.4	28.1	15.4
Ceylon*	1954	M	60.3	64.3	60.2	51.0	33.1	16.6
		F	59.4	62.7	59.3	50.3	33.6	16.8
Cyprus	1948-50	M	63.6	67.3	60.3	50.9	32.9	16.9
		F	68.8	72.6	65.4	55.8	37.2	19.5

Complete Expectation of Life ($\mathring{e}_x$) at Various Ages

in Selected Countries (Continued)

Country	Years	Sex	Age 0	1	10	20	40	60
India /g	1941-50	M	32.45	39.00	38.97	33.03	20.53	10.13
		F	31.66	37.30	39.45	32.90	21.06	11.33
Israel (Jews)	1958	M	69.53	70.83	62.41	52.92	34.00	16.62
		F	72.45	73.59	65.35	55.34	36.15	18.78
Japan /10	1958	M	64.98	66.51	58.68	49.19	31.29	15.29
		F	69.58	70.96	63.08	53.48	35.23	18.38
Philippines	1946-49	M	48.81	54.74	54.64	45.98	31.14	17.72
		F	53.36	58.62	56.22	47.27	32.26	18.45
Ryukyu Islands	1955-57	M	65.8	65.5	58.3	48.9	31.7	16.3
		F	72.0	71.7	64.4	55.2	37.4	20.2
Thailand	1947-48	M	48.69	52.00	47.87	39.81	25.56	12.69
		F	51.90	55.20	50.90	42.71	28.43	14.20
Africa								
Belgian Congo								
African Population /11h	1950-52	M	37.64	42.45	41.40	34.41	21.48	10.63
		F	40.00	44.14	43.23	36.29	23.33	12.27
Kenya								
European population.	1946-49	M	63.8	64.8	56.5	47.8	30.3	15.5
		F	69.3	70.8	62.8	53.4	34.9	17.8
Mauritius (ex. dep.)	1951-53	M	49.79	54.71	49.23	40.11	23.58	11.18
		F	52.29	56.74	52.22	43.67	28.75	14.59
Réunion	1951-55	M	47.50	53.80	49.80	40.80	25.10	12.40
		F	53.40	59.30	56.10	47.10	31.40	16.90
Union of South Africa								
Asiatics	1945-47	M	50.70	54.29	48.78	40.22	24.82	11.97
		F	49.75	52.82	47.47	39.30	24.78	11.96
Coloureds	1945-47	M	41.70	47.81	44.92	36.83	23.97	13.16
		F	44.00	49.53	47.01	39.42	27.26	14.97
Europeans	1945-47	M	63.78	65.51	57.71	48.35	30.38	15.34
		F	68.31	69.63	61.73	52.27	34.07	18.04
Oceania								
Australia /12	1953-55	M	67.14	67.86	59.53	50.10	31.65	15.47
		F	72.75	73.22	64.78	55.06	36.00	18.78
Hawaii	1949-51	M	67.76	68.77	60.36	50.86	32.41	16.79
		F	71.27	71.86	63.37	53.71	34.87	18.42
New Zealand								
Europeans	1950-52	M	68.29	69.03	60.60	51.15	32.65	16.19
		F	72.43	72.90	64.37	54.64	35.64	18.53
Maoris	1950-52	M	54.05	57.69	50.99	42.21	26.41	12.81
		F	55.88	59.08	52.05	43.29	27.00	14.41

NOTES TO TABLE

* Provisional.

1/ Values for ages 0 and 1 derived from mortality rates estimated on the basis of data for Trinidad and Tobago.
2/ Values for age 1 derived from mortality rates computed on population assumed to have same age distribution as Jamaica, 1946.
3/ Similarity in mortality and advantages of greater stability in larger numbers led to decision to compile life table on combined experience.
4/ Excluding tribal Indians and Canal Zone.
5/ Excluding data for Alaska and Hawaii, which became the 49th and 50th States of the Union on 3 January and 21 August 1959, respectively. Data for Hawaii are shown separately below.
6/ Data are for population born in Brazil and are derived from mortality rates based on apparent survivorship rates between censuses.
7/ Excluding Amerindians.
8/ Values derived from results of April 1959 rural demographic sample survey in 345 villages.
9/ Values derived from mortality rates based on apparent survivorship rates between censuses except values for ages under 5 and for 60 which are estimated. States of Uttar Pradesh, Bihar, Orissa, Assam, Manipur, Madras, Mysore, Travancore-Cochin, Coorg, Bombay, Saurashtra, Kutch, Madhya Pradesh, Madhya Bharat, Hyderabad, Bhopal, and Vinhya Pradesh.
10/ Japanese nationals only.
11/ Obtained from sample surveys of about 3.6 per cent of indigenous population.
12/ Excluding full-blooded aborigines.

Sources

a/ Unless otherwise noted figures were taken from: United Nations Statistical Office. Demographic Yearbook 1959. Table 32.
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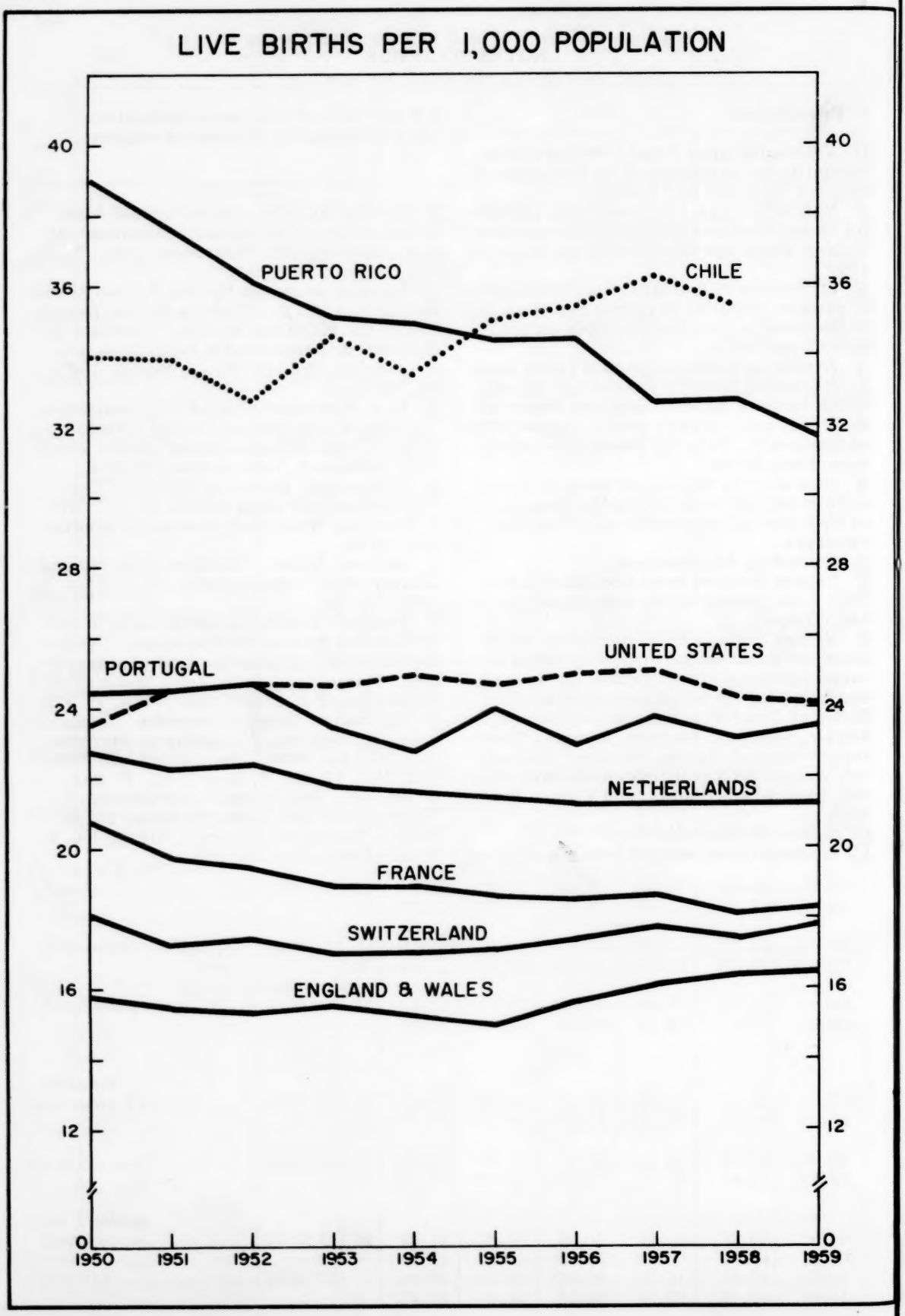
LIVE BIRTHS PER 1,000 POPULATION
40
36
32
28
24
20
16
12
0
PUERTO RICO
CHILE
UNITED STATES
PORTUGAL
NETHERLANDS
FRANCE
SWITZERLAND
ENGLAND & WALES
1950
1951
1952
1953
1954
1955
1956
1957
1958
1959

POPULATION INDEX

Vol. 26 1960

CONTENTS

INDEX OF CURRENT ITEMS ii

INDEX OF CHARTS ii

INDEX OF STATISTICS ii

INDEX OF BIBLIOGRAPHY ii

NOTES ON SOURCES v

GEOGRAPHICAL INDEX xi

AUTHOR INDEX. xxi

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CURRENT ITEMS

	Page
Borrie, W. D. - Demographic Cycles and Economic Development: Some Observations Based upon Australian Experience	3
International Population Conference	16
Kirk, Dudley. - Some Reflections on American Demography in the Nineteen Sixties	305
Taeuber, Irene B. - The Bases of a Population Problem: the Philippines	97
The 1960 Meeting of the Population Association	199

CHARTS

Front Cover	Vol. 26, No.
Age Profiles, Australian Population	1
Children Ever Born Per 1,000 Ever-Married Women Aged 45-54, Provinces of the Philippines, 1939	2
Duration of Residence in Current Place, Males Aged 45-64, United States, 1958	3
United States: Percent Change, 1950 to 1960: Component Parts of SMSA's	4

Back Cover	
Deaths per 1,000 Population	1
Infant Deaths per 1,000 Live Births	2
Excess of Births Over Deaths per 1,000 Population	3
Live Births per 1,000 Population	4

STATISTICS

	Page
Population Size and Growth	87
Reproduction Rates and Intrinsic Vital Rates	184
Birth Rates	287
Death Rates	289
Infant Mortality Rates	291
Marriage Rates	293
Life Expectancy ($\mathring{e}_x$) at Various Ages	383

BIBLIOGRAPHY

A. General Population Studies and Theory	20, 118, 215, 311
B. Regional Population Studies:	
Historical Studies	22, 121, 217, 315
Regional Demography	24, 124, 219, 317
Surveys Containing Demographic Material	27, 127, 221, 319
C. Spatial Distribution:	
General Spatial Distribution	28, 127, 222, 320
Urban Patterns	28, 128, 223, 321
Rural Patterns	30, 129, 224, 323

D. Trends in Population Size:
- Past Trends 30, 129, 224, 323
- Estimates 30, 130, 224, 325
- Projections and Predictions 31, 130, 225, 325

E. Mortality:
- General Mortality 33, 131, 227, 328
- Prenatal and Perinatal Mortality 33, 132, 227, 328
- Infant Mortality 34, 132, 227, 328
- Mortality at Other Ages 34, 133, 228, 329
- Life Tables 35, 133, 228, 329
- Mortality by Social and Economic Groups 36, 133, 229, 330
- Mortality by Cause 37, 134, 230, 331

F. Fertility and Natural Increase:
- General Fertility 39, 136, 232, 333
- Differential Fertility 41, 136, 233, 334
- Sterility and Other Pathology 42, 137, 234, 334
- Fertility Controls 42, 137, 235, 335
- Natural Increase 43, 138, 237, 337

G. Marriage, Divorce, and the Family:
- Marriage and Divorce 43, 138, 237, 337
- The Family 44, 139, 238, 338

H. International Migration:
- General 44, 139, 239, 339
- Settlement and Resettlement 45, 140, 240, 340
- Temporary Movements 45, 140, 240, 340
- Refugees 46, 140, 240, 340

I. Internal Migration:
- General 46, 141, 240, 340
- Rural-Urban 47, 142, 241, 341
- Settlement and Resettlement 48, 142, 241, 341

J. Characteristics:
- Demographic Characteristics 48, 143, 242, 341
- Biological Characteristics 48, 143, 243, 342
- Psychological Characteristics 49, 144, 244, 343
- Economic Characteristics 50, 144, 245, 343
- Social Characteristics 52, 147, 246, 345
- Ethnic Characteristics 52, 147, 246, 345

K. Demographic and Economic Interrelations:
- Demographic Factors and Resources 53, 148, 247, 346
- Economic Growth 54, 148, 247, 347
- Labor-Force Participation 54, 149, 249, 348
- Occupation and Industry 56, 150, 251, 350
- Business Fluctuations 57, 151, 251, 351
- Economic Dependency 57, 151, 252, 351
- Other Economic Variables ..... 57, 151, 252, ——

L. Other Interrelations: .....
- Demographic and Social Factors 57, 152, 253, 352
- Demographic and Political Factors 58, 154, 254, 353
- Demographic and Other Factors 58, 154, 254, 353

M. Policies:
- General Population Policy 59, 154, 255, 353
- Measures Affecting Fertility 59, 155, 256, 354
- Policy on Internal Redistribution 59, 156, 256, 355
- Policy on International Migration 60, 157, 258, 355
- Policy on Quality 61, 158, 258, 356

N. Methods of Research and Analysis 61, 158, 258, 356

O. Organization and Administration:
- Registration of Vital Statistics 62, 159, 259, 357
- Population Censuses and Registers 63, 160, 261, 357
- Other Data Collecting and Processing 64, 163, 263, 359

P. Professional Meetings and Conferences 65, 163, 263, 359

Q. Bibliographies 65, 164, 267, 362

R. New Periodicals 67, 165, 268, 363

S. Official Statistical Publications 68, 166, 268, 364

thos
to s
tion
list
Eur
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NOTES ON SOURCES

The following lists of current bibliographies and of other periodicals comprise those checked through regularly in the preparation of Population Index. The endeavor is to see each issue as promptly as possible, though some lags are unavoidable. In addition, a number of other bibliographies and periodicals are seen less consistently. In the list of periodicals, medical, geographical, agricultural, historical, political, and East European literature is lightly represented, because primary reliance has been placed upon outstanding bibliographies, notably on the Index Medicus, Current Geographical Publications, the Bibliography of Agriculture of the U. S. Department of Agriculture, the American Historical Review, the American Political Science Review, and the East European Accessions Index and Monthly Index of Russian Accessions of the Library of Congress. This listing of sources excludes statistical and other official publications that do not contain substantive articles, serial publications that are not periodical, and of course, the books and monographs seen.

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GEOGRAPHICAL INDEX

NORTH AMERICA

North America - 3247, 3388.
Central America - 2074, 2340, 3347.

Barbados - 1360, 3420.

Canada:
General Population Studies and Theory - 2012, 3013, 3186.
Regional Population Studies - 2048, 2051, 2094, 3025, 3048, 3059.
Spatial Distribution - 4114.
Trends in Population Size - 1112, 2123, 3096.
Mortality - 3127, 3130, 3186.
International Migration - 1269, 3259.
Characteristics - 1305, 2293, 2294, 2317, 3286, 4364, 4368.
Demographic and Economic Interrelations - 2355, 3359, 3387, 3390, 4401, 4402.
Other Interrelations - 1391.
Policies - 1415, 4481.
Organization and Administration - 2481.
Professional Meetings and Conferences - 4522.
Bibliographies - 2496.
New Periodicals - 1480, 4554.
Official Statistical Publications - 1490-1492, 4555.

Costa Rica - 1084, 2099, 2419, 2519, 3099, 4096, 4170.

Cuba - 1493, 2520, 3100.

Dominican Republic - 2521, 2522.

El Salvador - 1075.

French West Indies - 2048.

Greenland - 3048.

Guadeloupe - 3074, 4159.

Guatemala - 1334, 2455, 2456, 2477, 2523, 3139, 4514.

Haiti - 1494, 3066, 3466, 4361.

Jamaica - 2193, 3228.

Mexico - 1339, 1435, 2053, 2060, 2074, 2093, 2159, 2240, 2270, 2331, 2333, 2340, 2393, 2409, 2427, 2430, 2497, 3204, 3331,

Mexico (cont.)
3347, 3446, 3518, 4046, 4048, 4140, 4163, 4480.

Nicaragua - 3019.

Panama - 2340, 2524, 3347.

Puerto Rico - 1300, 2331, 3515, 4232, 4434, 4556.

Trinidad and Tobago - 1325, 2098, 2425.

United States:
General Population Studies and Theory - 1002, 2002, 2005, 2010, 2015, 2016, 2495, 3002, 3020, 3506, 4022, 4043, 4093, 4106, 4125.
Regional Population Studies:
Historical Studies - 1027, 1028, 1036, 1048, 2032, 2037, 2338, 2374, 3327, 3371, 3499, 4022, 4135, 4306, 4561.
Regional Demography - 1002, 1069, 1241, 3391, 4327, 4332.
Surveys Containing Demographic Material - 1473, 3067, 3331.
Spatial Distribution:
General Spatial Distribution - 1002, 1048, 1069, 1387, 2032, 2113, 2116, 2495, 3331, 4093, 4135, 4327, 4332, 4446, 4523, 4540.
Urban Patterns - 1286, 1426, 2010, 2112, 2113, 2116, 2375, 2376, 2412, 2495, 3079, 3082, 3084-3086, 3089, 3294, 3407, 3447, 4106, 4115, 4119, 4123, 4125, 4540.
Rural Patterns - 2256, 4133.
Trends in Population Size:
Past Trends - 1002, 2037, 3079, 4115, 4154, 4327, 4332, 4357, 4372, 4446, 4561.
Estimates - 1116, 1503, 1504, 2126, 2449, 3105-3107, 4519.
Projections and Predictions - 1352, 1497, 2016, 2112, 2113, 2128, 2130, 2256, 2290, 2447, 2495, 3112, 3391, 4135, 4167, 4170, 4567.
Mortality:
General Mortality - 1002, 1069, 1135, 1502, 3067, 3124, 4178, 4372, 4429, 4561-4564.
Prenatal Mortality - 1140-1142, 1502, 2170, 2531, 3131, 3215, 3472, 4274.
Infant Mortality - 1502, 2156, 2459,

United States, Infant Mortality (cont.)
3067, 3136, 4187, 4191, 4274, 4372.
Mortality at Other Ages - 1135, 1181, 1247, 2169, 2170, 2492, 3137, 3302, 4191, 4198, 4337.
Life Tables - 1502, 2161, 3149.
Mortality by Social and Economic Groups - 1169, 1170, 1174-1176, 1181, 2015, 2166, 3151, 3153, 3154, 3156, 3157, 3160, 4214, 4216.
Mortality by Cause - 1135, 1169, 1170, 1174-1177, 1181, 1185, 1186, 1189, 1191, 1192, 1403, 1437, 1501, 1502, 2143, 2169, 2170, 2180, 2184-2186, 2531, 3151, 3153, 3154, 3160, 3164, 3177, 3183, 3188, 3472, 4180, 4187, 4191, 4214, 4216, 4218, 4223, 4234, 4274, 4372, 4562, 4564.
Fertility and Natural Increase:
General Fertility - 1002, 1069, 1215, 2195, 2196, 3002, 3067, 3541, 4250, 4372, 4561.
Differential Fertility - 1219, 1221-1223, 2015, 2016, 2195, 2196, 2198-2200, 2202, 3199, 3200, 3203.
Sterility and Other Pathology - 1226, 1227, 2206, 3209, 3215, 3400.
Fertility Controls - 1236, 2002, 2005, 2015, 2016, 2219, 3218, 3223, 3229, 3237, 3289, 3422, 4264, 4265, 4270, 4274, 4276-4278.
Natural Increase - 1241, 4135.
Marriage, Divorce, and the Family:
Marriage and Divorce - 1002, 1221, 1247, 1251, 2228, 2530, 3199, 3244, 4447.
The Family - 1255, 2195, 2202, 2290, 3002, 3393, 4277, 4278, 4288, 4292, 4297, 4429, 4522, 4558.
International Migration - 1002, 1027, 1028, 1267, 2338, 2375, 2376, 2427, 2430, 3262, 3515, 3544, 4135, 4306, 4367, 4449, 4475, 4483.
Internal Migration - 1002, 1048, 1069, 1283, 1286, 1377, 1400, 2252, 2256, 2261, 2323, 2324, 2334, 2375, 2376, 3086, 3506, 3515, 4119, 4125, 4167, 4321, 4427, 4432, 4520, 4522.
Characteristics:
Demographic Characteristics - 1002, 1069, 2532, 3106, 3289, 3294, 3331, 3538, 4135, 4167, 4327, 4331, 4332, 4371-4373, 4432, 4443, 4446, 4522, 4558.
Biological Characteristics - 1297, 2532, 3296, 3302, 3308, 4337.
Psychological Characteristics - 1304, 1307-1309, 1400, 2288, 2373, 2380, 3311, 3312.
Economic Characteristics - 1002, 1321, 1328-1330, 1380-1382, 1496, 2037, 2290, 2335, 2350, 2435, 3089, 3319, 3360, 3371, 3375, 3386, 3515,
Economic Characteristics (cont.)
3543, 4022, 4306, 4327, 4332, 4346, 4354, 4356-4358, 4417, 4418, 4430, 4432, 4434, 4519, 4520, 4560, 4565, 4566.
Social Characteristics - 1002, 1473, 2130, 2315, 2373, 3199, 3319, 3327, 3538, 4432, 4522, 4566.
Ethnic Characteristics - 1286, 1344, 1458, 2261, 2323, 2324, 2374, 3067, 3089, 3331, 4372, 4522.
Demographic and Economic Interrelations:
Demographic Factors and Resources - 1069, 3340.
Economic Growth - 1352, 1355, 2037, 2334, 2335, 2338, 3343, 3506, 3515, 4022, 4115, 4170, 4396, 4405.
Labor Force Participation - 1223, 1358, 1370, 1380, 2348, 2350, 2495, 3084, 3086, 3319, 3360, 3371, 3375, 3386, 3506, 4167, 4417, 4418, 4520, 4522, 4566.
Occupation and Industry - 1283, 1352, 1377, 1380, 2128, 2256, 2348, 2357, 2359, 2360, 2495, 3319, 3360, 3515, 4022, 4123, 4356, 4357, 4396, 4427, 4520, 4521, 4540.
Business Fluctuations - 3386.
Economic Dependency - 1381, 1382, 2365, 2492, 3112, 3387, 4297, 4405, 4429, 4430, 4432, 4434.
Other Economic Variables - 1387, 3393, 3396.
Other Interrelations:
Demographic and Social Factors - 1223, 1247, 1426, 1473, 1480, 2002, 2005, 2010, 2015, 2228, 2252, 2373-2376, 2380, 2495, 3002, 3082, 3151, 3199, 3244, 3289, 3400, 3407, 3408, 3506, 4043, 4247, 4278, 4443, 4521.
Demographic and Political Factors - 1395, 1396, 3407, 3408, 4446, 4522.
Demographic and Other Factors - 1219, 1226, 1255, 1286, 1400, 1403, 2206, 3311, 4447, 4449, 4450.
Policies:
Measures Affecting Fertility - 2002, 2005, 2406, 3223, 3422, 3424, 4274, 4456, 4468.
Policy on Internal Redistribution - 1036, 1286, 2256, 2410, 2412, 3089, 3375, 3438, 3447, 3506, 4471.
Policy on International Migration - 1027, 1028, 1267, 2422, 2423, 2427, 2429, 2430, 4475, 4477, 4480, 4481, 4483.
Policy on Quality - 2128.
Methods of Research and Analysis - 1355, 2037, 2252, 2435, 2436, 2446, 2449, 2450, 3112, 3457, 3462, 4167, 4214, 4275, 4373, 4522, 4538.
Organization and Administration - 1140,

U.S. Organization and Administration (cont.)
1141, 1215, 1247, 1432, 1437, 1438, 1449, 1450, 1458, 1473, 2435, 2436, 2446, 2459, 3124, 3457, 3464, 3472, 3474, 3497-3499, 3529, 4214, 4234, 4288, 4354, 4357, 4373, 4496, 4515, 4516, 4519, 4522, 4538, 4557.
Professional Meetings and Conferences - 1221, 1222, 1236, 1255, 2450, 2492, 2495, 3311, 3506, 3515, 4520, 4521-4523.
Bibliographies - 1400, 1473, 1480, 2436, 3518, 3529, 4471, 4522, 4538, 4540, 4544, 4559.
New Periodicals - 1480, 3532, 3534-3536.
Official Statistics - 1495-1504, 2126, 2526-2532, 3319, 3529, 3538-3544, 4331, 4354, 4356, 4357, 4372, 4516, 4557-4567.
Regions:
East - 3327.
New England - 4157.
North Central - 1069.
Northeast - 1283, 1380, 4119, 4327.
South - 1377, 2252, 2357.
Southwest - 3067, 3331, 4373.
West - 1048.
States:
Alaska - 3048, 3093, 4336.
Arizona - 4372.
Arkansas - 2308, 3274, 3364.
California - 1111, 1175, 1394, 4167, 4250, 4498.
Connecticut - 1283, 3071, 3098, 4220, 4456, 4484.
Delaware - 1283, 3311.
Florida - 1329, 2299.
Georgia - 2306.
Illinois - 3176, 4310.
Indiana - 4243.
Iowa - 2256.
Kansas - 1396, 3282.
Louisiana - 4128, 4131.
Maine - 1283, 2047.
Maryland - 1283, 3364, 4332.
Massachusetts - 1283, 1438, 2457, 3279, 4456.
Michigan - 2271, 3180, 3472, 4145, 4146.
Minnesota - 4126, 4132.
Mississippi - 1118.
New Hampshire - 1115, 1283, 2257, 3320.
New Jersey - 1283, 4164, 4417.
New Mexico - 4372.
New York - 1226, 1283, 1307-1309, 2274, 4331, 4343.
North Carolina - 2300, 2410, 4266, 4274.
North Dakota - 2314.
Ohio - 2373, 4214.
Oklahoma - 4153, 4169, 4186, 4493.

United States, States (cont.)
Oregon - 2032, 4352.
Pennsylvania - 1283, 3474, 4181, 4194, 4234.
Rhode Island - 1283, 3183, 3424.
South Carolina - 3188.
Tennessee - 2200, 3499, 4396, 4474.
Texas - 2135.
Utah - 1117, 4129.
Vermont - 1283.
Washington - 4106, 4371.
West Virginia - 1283, 3364, 4257, 4427.
Wisconsin - 1395, 2103, 4446.
Wyoming - 2288.
Counties:
Baltimore, Md. - 3097.
Hennepin, Minn. - 1142.
Mahaska, Iowa - 3029.
Marion, Iowa - 3029.
Monroe, Iowa - 3029.
Onondaga, N. Y. - 2152.
Trempealeau, Wis. - 2037.
Cities:
Baltimore, Md. - 4256.
Boston, Mass. - 2375.
Brooklyn, N. Y. - 4109.
Buffalo, N. Y. - 2169, 2202.
Chicago, Ill. - 4277, 4278.
Cincinnati, O. - 4277, 4278.
Donora, Pa. - 1403.
Hagerstown, Md. - 3296.
Indianapolis, Ind. - 3200.
Kansas City, Mo. - 1321, 4218.
Lubbock, Texas - 2110.
Memphis, Tenn. - 2256.
Montgomery, Ala. - 2198.
New Haven, Conn. - 1344, 2323, 2380.
New Orleans, La. - 3289.
New York, N. Y. - 1185, 1342, 1437, 2374, 3078, 3244.
Philadelphia, Pa. - 4471.
Syracuse, N. Y. - 3396.
St. Petersburg, Fla. - 2492.
Washington, D. C. - 4116.
Metropolitan Areas:
Champaign-Urbana, Ill. - 2115.
Chicago, Ill. - 4090, 4122, 4173.
Detroit, Mich. - 1432, 2196, 2199.
New York, N. Y. - 2108, 2376, 3084, 3110.
San Francisco-Oakland, Calif. - 1426. 4121, 4172.
St. Louis, Mo. - 3408.

Virgin Islands (U. S.) - 4434, 4564.

West Indies - 3159, 4239, 4382.

SOUTH AMERICA

South America - 3335.

Argentina - 2511, 3283, 3451, 3512, 3545, 4110, 4479, 4568.

Bolivia - 3285.

Brazil:
General Population Studies and Theory - 4028.
Regional Population Studies - 2075.
Spatial Distribution - 1091, 2104, 2111, 2114, 3077, 4099.
Trends in Population Size - 1105, 1110, 2132, 3114.
Mortality - 1159, 1194, 4202.
Fertility and Natural Increase - 1203, 1218, 1224, 3201.
Marriage, Divorce, and the Family - 2226.
International Migration - 1257, 1268, 2243, 4299.
Internal Migration - 1277.
Characteristics - 1292, 2281, 4360.
Demographic and Economic Interrelations - 2352, 3383.
Other Interrelations - 2369, 3397, 3399.
Policies - 3417, 3434, 3435, 3437, 3443.
Methods of Research and Analysis - 1428.
Organization and Administration - 3480-3482.
Professional Meetings and Conferences - 3512.
Official Statistical Publications - 2533, 3546.

British Guiana - 1266, 2097, 4287, 4294.

Chile - 1136, 1505, 2488, 3174, 4322.

Colombia - 1123, 2066, 2092, 2120, 2138, 2234, 2402, 2467, 3261, 4076, 4569.

Ecuador - 1279, 1482, 2488, 3060, 3485, 3512, 4244, 4366, 4514, 4570.

French Guiana - 1338, 2059, 2097.

Paraguay - 2426, 3104, 3263, 3547, 3548.

Peru - 1021, 1506, 2077, 2259, 2534, 3069, 3369, 3512, 4147.

Surinam - 1507, 2097, 2420, 3065, 3484.

Uruguay - 2150.

Venezuela - 1165, 2151, 2452, 2535, 3256, 3475, 3500, 3514, 3549, 4219.

EUROPE

Europe - 1044, 1267, 1352, 1362, 1372, 1416, 2249, 2316, 2369, 3023, 3027, 3054, 3269, 3304, 3348, 3381, 3508, 4503.

Benelux - 2424.
Central Europe - 3031.
Eastern Europe - 1019, 3031, 4026, 4365.

Europe (cont.)
European Coal and Steel Community - 2424.
European Economic Community - 1362, 1372, 2291, 2344, 3450, 3493, 4304, 4453, 4476.
Northern Countries - 4581.
Scandinavia - 1091, 1468, 2012, 3223.
Western Europe - 1152, 1153, 1259, 2310. 2424, 4177, 4384, 4402, 4481.

Albania - 2536, 4070, 4176, 4347.

Austria - 1040, 1131, 1144, 1148, 1178, 1201, 1217, 1242, 1243, 1256, 1508, 2080, 2081, 2137, 2353, 2537, 3120, 3182, 3191, 3240, 3550, 4147, 4193, 4236.

Belgium - 1152, 1358, 1376, 1403, 2062, 2087, 2122, 2194, 2289, 2538, 3037, 3043, 3047, 3121, 3192, 3202, 3243, 3258, 3436, 3551, 3552, 4060, 4301, 4353, 4571.

Bulgaria - 1107, 1444, 1509, 3362, 4070, 4326, 4463, 4464.

Czechoslovakia:
General Population Studies and Theory - 1014, 1018, 1022.
Regional Population Studies - 1041, 2068, 2070, 3042, 4070.
Spatial Distribution - 1091, 1098, 1099, 4095.
Trends in Population Size - 1126, 2121, 4141.
Mortality - 1151, 1157, 1160, 1166, 1167, 2145, 3140, 3144, 4203, 4235.
Fertility and Natural Increase - 1211, 1225, 3194, 4248.
Marriage, Divorce, and the Family - 3254, 4296.
International Migration - 1273, 4302.
Internal Migration - 3275, 4315, 4319.
Characteristics - 1295, 2269, 2277, 4335.
Policies - 1405, 3419, 4464.
Methods of Research and Analysis - 1431, 3455.
Organization and Administration - 1436, 1447, 1452, 3470, 3471.
Bibliographies - 2502.
Official Statistical Publications - 1510, 2539, 3553.

Denmark - 1205, 1511, 1512, 2144, 2148, 3109, 3125, 3222, 3241, 3260, 3315, 3316, 3483, 3554, 3555, 4156, 4175, 4572, 4581.

Estonia - 4118.

Finland - 1064, 1124, 1182, 1235, 1249, 1298, 1451, 1513, 2163, 2188, 2225, 2263, 2268, 2432, 3094, 3101, 3115, 3116, 3119, 3267, 3288, 3300, 3305, 3321, 3323, 3370, 4170, 4414, 4581.

France:
General Population Studies and Theory -

France, General Population (cont.)
1007-1009, 2012, 4001, 4011.
Regional Population Studies - 1032, 1033, 1043, 1052, 1059, 1068, 2038, 2040, 2048, 2063, 2067, 2088, 3026, 3052, 3053, 3057, 3167, 4051, 4053, 4080.
Spatial Distribution - 2106, 2107, 2119, 4098, 4104, 4105, 4111.
Trends in Population Size - 1104, 4160.
Mortality - 1143, 1153, 1161, 1171, 1184, 2173, 2179, 3185, 4210, 4213, 4224, 4231.
Fertility and Natural Increase - 1206, 2197, 3197, 4279.
Marriage, Divorce, and the Family - 1245, 4289, 4290.
International Migration - 1260, 1264, 2239.
Internal Migration - 1286.
Characteristics - 1311, 2267, 2297, 2309, 4344.
Demographic and Economic Interrelations - 1384, 2358, 2366, 3350, 4413, 4420, 4431.
Other Interrelations - 2371, 2385, 2392, 3398, 4436, 4437.
Policies - 1406, 1409, 1422, 2395, 2411, 2414, 2417, 2418, 3450, 4473.
Organization and Administration - 4495.
Bibliographies - 4545.
Official Statistical Publications - 1514-1519, 2540-2544, 3556-3558, 4573.

Germany - 1029, 1037, 1040, 1045, 1273, 2069, 2267, 3039-3041, 3271, 4185, 4189, 4222, 4333, 4403.

Germany, Democratic Republic - 1011, 1149, 1198, 1293, 1324, 1407, 2139, 2157, 2242, 2301, 2343, 2399, 3126, 3178, 3213, 3232, 3428, 3473, 3530, 4070, 4424, 4542, 4574.

Germany, Federal Republic:
General Population Studies and Theory - 2023, 3008, 3111.
Regional Population Studies - 1062, 4072.
Spatial Distribution - 4108.
Trends in Population Size - 4137, 4149, 4170.
Mortality - 1132, 1147, 1195, 2139, 2164, 2165, 3169, 3171, 3185, 4189, 4192, 4200, 4211, 4226.
Fertility and Natural Increase - 1208, 3193, 3198, 3231,
Marriage, Divorce, and the Family - 2227, 2230, 3251, 3252, 4281, 4282, 4285, 4286, 4293.
International Migration - 1275, 1276, 2235, 2242, 2245, 2246, 3263.
Internal Migration - 2253, 2262, 2263, 3278, 4311.
Characteristics - 2298, 2313, 4333, 4345, 4350.

Germany, Federal Republic (cont.)
Demographic and Economic Interrelations - 1363, 1364, 2342, 2362, 2364, 3365, 3378, 4404.
Other Interrelations - 2378, 4439.
Policies - 2416, 2439, 3421.
Methods of Research and Analysis - 2445.
Organization and Administration - 1448, 3492, 3505.
Bibliographies - 1471, 2506.
Official Statistical Publications - 1520, 1521, 2545, 3559-3561, 4575.

Germany. West Berlin - 1522, 3317, 3562, 4073, 4222, 4225, 4227, 4247.

Greece - 2546, 4083.

Hungary:
General Population Studies and Theory - 1024, 2011.
Regional Population Studies - 1031, 1035, 1039, 1042, 1049, 2033, 2036, 2039, 2043, 2045, 2050, 3021, 3034, 4070, 4086.
Spatial Distribution - 1085-1087, 1094, 3073.
Trends in Population Size - 4139, 4144.
Mortality - 1158, 3138, 3161, 3179, 4184, 4238.
Fertility and Natural Increase - 1212, 1230, 1234, 1238, 4258.
International Migration - 1273.
Characteristics - 1310, 3290, 3292, 3297, 4355.
Demographic and Economic Interrelations - 3363.
Other Interrelations - 1390, 4438, 4440.
Policies - 1404, 4464.
Organization and Administration - 1445, 2474, 3479.
Bibliographies - 1469.
New Periodicals - 1483.
Official Statistical Publications - 1523, 3563, 3564, 4576, 4577.

Iceland - 4581.

Ireland - 1262, 1524, 2012, 2046, 2237, 3061, 3090, 3123, 3207, 3263, 3361, 3565, 4049, 4052, 4074, 4075, 4259, 4306.

Italy:
General Population Studies and Theory - 1003, 4027.
Regional Population Studies - 1025, 1063, 2034, 2057, 2061, 2081, 3042, 4045, 4079.
Spatial Distribution - 1087, 1102, 1103, 4094.
Trends in Population Size - 1106, 4165.
Mortality - 2140, 2146, 2147, 2174, 2175, 2183, 3122, 3141, 3143, 3146, 4197, 4199, 4206.
Fertility and Natural Increase - 1216,

Italy, Fertility (cont.)
2204, 4242.
Marriage, Divorce, and the Family - 1246, 3246.
Internal Migration - 1280, 1281, 2263, 2264, 4314.
Characteristics - 2280, 2303, 2304, 4330, 4338, 4351.
Demographic and Economic Interrelations - 1385, 3392, 3394, 3395, 4400, 4410.
Other Interrelations - 1392, 2390, 3409, 4442.
Policies - 1411, 1416, 2404, 3425,
Organization and Administration - 3487.
Professional Meetings and Conferences - 3509, 3511.
Official Statistical Publications - 1525, 1526, 2547, 2548, 3565, 4578.

Latvia - 3255.

Luxembourg - 3103, 3567-3569.

Malta - 1527, 1528, 2549, 3570-3573, 4579.

Netherlands - 1114, 1139, 1152, 1290, 1319, 1529, 1530, 2263, 3113, 3162, 3266, 3366, 3382, 3574, 4033, 4102, 4170, 4195, 4482, 4532, 4580.

Norway - 1023, 1156, 2187, 2550, 3575, 3576, 4316, 4581.

Poland:
Regional Population Studies - 1047, 1050, 1066, 2069, 2079, 2089, 3036, 3051, 4047, 4055, 4063, 4070.
Trends in Population Size - 1125, 2134.
Mortality - 1133, 3147, 4190, 4207.
Fertility and Natural Increase - 2215, 3205.
Marriage, Divorce, and the Family - 1254.
Internal Migration - 1282, 4312, 4325.
Characteristics - 1316, 2273, 2321, 3291, 3295, 3325, 3326.
Demographic and Economic Interrelations - 1349, 2341, 3367, 3374, 4403, 4423, 4425.
Other Interrelations - 3405.
Policies - 3448, 4452, 4462, 4464, 4469.
Organization and Administration - 3467, 3478, 3488, 3491, 3494, 3495.
Bibliographies - 3522.
New Periodicals - 1487, 3533.
Official Statistical Publications - 2551, 2552.

Portugal - 1127, 1531, 2055, 3056, 3429, 3527, 4100, 4299, 4472, 4582.

Romania - 1100, 1273, 2553, 3577, 3578,

Romania (cont.)
4070, 4171, 4348, 4497.

Spain:
General Population Studies and Theory - 3019.
Regional Population Studies - 2044, 2052, 2056, 3024, 3032, 3046.
Spatial Distribution - 3075.
Trends in Population Size - 4134.
Mortality - 1154, 1193, 2176, 3133, 3135, 3187, 4196.
Fertility and Natural Increase - 1200, 1204, 3190, 3196, 4260.
International Migration - 2236.
Characteristics - 3298, 3322, 3324.
Demographic and Economic Interrelations - 2356, 3372, 3377, 3380.
Other Interrelations - 2370.
Policies - 3433, 3452.
Organization and Administration - 2469.
Official Statistical Publications - 4583.

Sweden:
General Population Studies and Theory - 1012.
Regional Population Studies - 1026, 2041, 3022, 4058, 4062, 4082.
Spatial Distribution - 4130.
Trends in Population Size - 3095, 3108, 4162, 4168.
Mortality - 1162, 1187, 2162, 3128, 3148, 4204, 4217, 4230.
Fertility and Natural Increase - 2207, 3224, 4272.
Marriage, Divorce, and the Family - 1244.
Internal Migration - 4323.
Characteristics - 1322, 3307, 4341, 4342.
Demographic and Economic Interrelations - 1386.
Other Interrelations - 3412, 3414.
Organization and Administration - 2475, 3504, 4517.
Official Statistical Publications - 2554, 4581, 4584.

Switzerland - 1195, 1214, 2048, 2088, 2238, 2368, 2396, 2555, 3062, 3185, 3272, 3273, 4170.

United Kingdom:

Great Britain:
General Population Studies and Theory - 1001, 2019.
Regional Population Studies - 4059.
Spatial Distribution - 1090.
Mortality - 1172, 1179, 4179, 4209.
Fertility and Natural Increase - 1209.
Characteristics - 1302, 1306, 1317, 3299.
Demographic and Economic Interrelations - 1365, 1366, 1375, 1383, 2363,

United Kingdom, Great Britain (cont.)
3373, 3388, 4388.
Other Interrelations - 1398, 2382, 3404.
Policies - 1412, 2433, 3441, 3444, 4458, 4470.
Bibliographies - 3523, 4547.

England and Wales - 1278, 1369, 1374, 1532, 2046, 2076, 2167, 2168, 2178, 2191, 3142, 3158, 3166, 3185, 3206, 3287, 3310, 3313, 3579, 4182, 4212, 4228, 4229, 4461.
England - 1313, 1371, 1403, 2012, 2049, 2209, 2285, 2361, 2386, 2451, 2487, 3009, 3301, 3314, 4306, 4324, 4433, 4468, 4585.
Northern Ireland - 2283, 3142, 3155, 4074, 4470.
Scotland - 2210, 3142, 3216, 3281, 3309, 4182, 4461.
Wales - 3038, 3175, 3303, 3354, 4054.

Yugoslavia - 1056, 1071, 1096, 1150, 1240, 1291, 1296, 1353, 1378, 1533, 1534, 2117, 2136, 2172, 2224, 2254, 2372, 2443, 3118, 3250, 3284, 3459, 3517, 3580, 3581, 4070, 4318, 4393, 4504, 4506, 4524, 4586-4588.

U. S. S. R.

U.S.S.R.:
General Population Studies and Theory - 1016, 2001, 2018, 3001, 3016, 4026.
Regional Population Studies - 1038, 1046, 1058, 1060, 1078, 2083, 2085, 2086, 3033, 3055, 4060, 4077, 4081.
Spatial Distribution - 1091, 2101, 3072, 3076, 3092, 4118.
Trends in Population Size - 1128, 2125, 4143, 4150.
Mortality - 1164, 1188, 2153, 4183.
Fertility and Natural Increase - 2208.
Marriage, Divorce, and the Family - 3248, 3255, 4291.
Characteristics - 1301, 1320, 1326, 1327, 1335, 1337, 2296, 4362.
Demographic and Economic Interrelations - 1352, 3376, 3384, 4421.
Other Interrelations - 1397, 3406.
Policies - 1410, 3445, 4464-4466.
Methods of Research and Analysis - 1433.
Organization and Administration - 1434, 1446, 1454, 1455, 1457, 1459, 2460, 2462-2464, 2476, 2478, 2482-2484, 3489, 4508, 4510, 4511, 4518.
Professional Meetings and Conferences - 4534.
Bibliographies - 1474, 4536, 4537, 4543, 4546.

U.S.S.R. (cont.)
New Periodicals - 2513, 4548.
Official Statistical Publications - 1535-1537, 2556, 2557, 3582-3586, 4589-4593.

ASIA

Asia - 1348, 1350, 3117, 3304, 3357, 4084, 4513.
Far East - 1348, 3117, 3357, 4513.
South Asia - 1488, 2448, 4499, 4522.
Southeast Asia - 1129, 3477, 4481, 4499.
Western Asia - 4481.

Bahrain - 2124.

Burma - 2307, 4375.

Cambodia - 1538, 3330.

Ceylon - 1121, 1122, 1129, 1441, 1488, 1539, 2154, 2326, 4298, 4381, 4594.

China - 1034, 1253, 2042, 3028, 4004, 4015, 4038, 4050, 4148, 4367, 4369.

China, People's Republic - 1020, 1034, 1138, 1253, 1440, 2030, 2065, 2082, 2095, 2325, 2327, 2466, 3010, 3220, 3329, 3431, 3440, 4026, 4064, 4097, 4152, 4422, 4464, 4595.

China. Taiwan - 1129, 2558, 4170.

Cyprus - 1540, 4101.

Hong Kong - 2325.

India:
General Population Studies and Theory - 2004.
Regional Population Studies - 1057, 1074, 1079, 1081, 2064, 3050, 4069.
Spatial Distribution - 1093, 3080, 3091.
Trends in Population Size - 2127, 4161, 4166.
Mortality - 1145, 4233.
Fertility and Natural Increase - 1207, 1210, 1231, 1232, 1239, 2201, 2212, 2213, 2216, 4241, 4245, 4246, 4249, 4251, 4261.
Marriage, Divorce, and the Family - 2232, 3253.
International Migration - 4309.
Internal Migration - 1289, 3277, 4313.
Characteristics - 1299, 1314, 1318, 1331, 1333, 1340, 1341, 1343, 2278, 2279, 3293, 3318, 3328, 3333.
Demographic and Economic Interrelations - 1356, 1368, 2328, 2333, 2336, 2345-2347, 3341, 3348, 3385, 4375, 4376, 4378, 4381.
Other Interrelations - 2384, 2388, 4441.

India (cont.)
Policies - 2397, 2401, 2403, 2425, 3418, 3423, 3430, 3442, 4451, 4455, 4457, 4459, 4460.
Methods of Research and Analysis - 1427.
Organization and Administration - 1442, 1456, 2458, 2465, 2470, 2480, 3463.
Professional Meetings and Conferences - 4525.
New Periodicals - 1479, 4550.
Official Statistical Publications - 1541-1543.

Indonesia - 1418, 2211, 2302, 2498, 3087, 3235.

Iran - 1461, 2559, 3278, 4060, 4596.

Iraq - 1285, 1288, 3262, 4107.

Israel - 1393, 1413, 2149, 2171, 2229, 2369, 3008, 3379, 3426, 3469, 4252, 4308, 4349, 4370, 4390.

Japan:
General Population Studies and Theory - 1004, 2026, 4017, 4021, 4039.
Regional Population Studies - 2078, 2091, 3049, 4056, 4061, 4089.
Spatial Distribution - 1092, 4117, 4127.
Trends in Population Size - 1113, 3102, 4170.
Mortality - 1137, 4205, 4215, 4237.
Fertility and Natural Increase - 2214, 2220, 3223, 3225, 3227, 3233, 4253, 4262, 4263, 4269, 4271, 4273.
Marriage, Divorce, and the Family - 2233, 3245, 4284.
International Migration - 1263, 3263, 4300.
Internal Migration - 2265.
Characteristics - 4334, 4339, 4340.
Demographic and Economic Interrelations - 1352, 1373, 2330, 4395, 4398, 4406, 4407, 4409, 4416, 4426, 4428.
Policies - 4467.
Organization and Administration - 1439, 2472, 2473.
Bibliographies - 1475.
Official Statistical Publications - 1544-1547, 4597-4599.

Jordan - 2562, 4359.

Korea - 1065, 1294, 3587, 4600-4602.

Kuwait - 2124.

Lebanon - 4359.

Malaya - 1489, 1548, 4170.

Mongolian People's Republic - 2095.

Muscat and Oman - 2124.

Nepal - 2563.

Netherlands New Guinea - 3011.

North Borneo - 3213, 4078.

Pakistan - 1229, 1233, 1274, 1346, 1367, 1549, 2222, 2272, 2305, 2488, 2564, 2565, 4374, 4375, 4381, 4526.

Philippines - 1070, 1120, 1248, 1418, 2053, 2054, 2516, 3063, 4032, 4138, 4221, 4280, 4389, 4507, 4509.

Portuguese India - 2566.

Qatar - 2124.

Saudi Arabia - 3406.

Singapore - 1261, 1550, 1551, 2567, 3150, 3501, 3588, 4301, 4603-4605.

Thailand - 3181, 4071, 4170, 4513, 4606.

Trucial States - 2124.

Turkey - 1082, 1146, 1477, 2189, 2488, 3589.

United Arab Republic:
Syria - 4107, 4301, 4359.

Viet-Nam - 1552, 2247, 2568, 3590, 3591, 4607, 4608.

AFRICA

Africa - 1155, 1252, 1270-1272, 1423, 1478, 3332, 3355, 3356, 3502, 3503, 4068, 4481, 4499.
Central Africa - 2413, 3401.
East Africa - 1252, 2413.
North Africa - 1260, 1264, 1470, 3023, 3027, 3083, 3304.
South of the Sahara - 1252, 1271, 1272, 2241, 2491, 3270.
Spanish Africa - 4091.
Tropical Africa - 4383, 4391.
West Africa - 1252, 4383, 2118, 2379.

Algeria - 1108, 1109, 1470, 1553, 2158, 3044, 3358, 3398, 3592, 4437, 4609.

Angola - 1030, 2311, 3058, 4065.

Bechuanaland - 3402.

Belgian Congo - 1252, 2295, 2501, 2569, 3401, 4085, 4113, 4158, 4255, 4305, 4611, 4612.

Cameroon - See Cameroons [Fr. Adm.]

Cameroons [Fr. Adm.] - 1554.

Cape Verde Islands - 1030, 3045.

Central African Republic - 4610. See also French Equatorial Africa.

Congo Republic [formerly Belgian Adm.] - See Belgian Congo.

Congo Republic [formerly Fr. Adm.] - See Middle Congo.

Egypt - See United Arab Republic, Africa.

French Equatorial Africa - 1053, 1388, 2109, 2575. See also Central African Republic; Gabon.

French Guinea - 2454, 2573, 2574.

French West Africa - 1080, 1252, 1560.

Gabon - 2109, 3081.

Ghana - 1561, 2379, 2572.

Guinea - See French Guinea.

Ivory Coast - 1560.

Kenya - 2292, 4328, 4377.

Liberia - 1401, 4448.

Libya - 3525, 4359, 4615.

Madagascar - 1061, 2251, 2318, 4068, 4088.

Malagasy Republic - See Madagascar.

Mauritius - 4057, 4092, 4411.

Middle Congo - 3088.

Morocco - 1470, 3019, 3214, 4112.

Mozambique - 1030.

Nigeria - 1284, 1486, 2329, 2379, 3338, 3403, 3521.

Portuguese Guinea - 1030, 2250, 3468.

Réunion - 4159.

Rhodesia and Nyasaland, Federation of - 1055, 1258, 1336, 1555-1559, 3262, 3401, 3593.
Northern Rhodesia - 2231.
Nyasaland - 1345, 3349, 3401, 4067.
Southern Rhodesia - 2571, 4613, 4614.

Ruanda-Urundi - 4085, 4087.

São Tomé and Principe - 1030.

Senegal - 1252, 2575.

Somaliland - 4541.

Sudan - 1077, 1315, 2479, 2485, 4512, 4516.

Tanganyika - 1202, 1213, 1228, 1345, 2241, 2319, 2576, 3594.

Togo - 4617. See also Togoland.

Togoland - 2072, 2096, 2577. See also Togo.

Tunisia - 1351, 1470, 2100, 2239, 4151, 4363.

Uganda - 1095, 2578, 3306.

Union of South Africa - 2190, 2241, 2276, 2578, 3152, 3263, 3368, 3401, 3410, 3595, 4124, 4208, 4317, 4415.

United Arab Republic:
Egypt - 1261, 2090, 2570, 3406, 3596, 3597, 4397.

OCEANIA

American Samoa - 3011.

Australia - 1054, 1072, 1083, 1134, 1265, 1408, 1417, 1421, 2203, 2237, 2266, 2312, 2349, 2382, 2408, 2421, 2431, 2505, 2580, 3030, 3257, 3262, 3265, 3344, 3449, 3465, 3598, 4103, 4155, 4170, 4306, 4307, 4481, 4499.

Cook Islands - 3011.

Fiji Islands - 1073, 3011.

French Oceania - 2073, 3011.

Hawaii - 1250, 1472, 2367, 3334, 4283, 4564, 4535.

Melanesia - 4140.

New Guinea [Aust. Adm.] - 1265, 2084. 3011, 3068.

New Zealand - 1398, 2129, 2131, 2515, 2581, 2582, 3134, 3262, 3599, 4142, 4170, 4303, 4369, 4412, 4481, 4618.

Niue - 3011.

Pacific Islands [U. S. Adm.] - 1563.

Pitcairn Island - 3035.

Polynesia - 4068.

Ryukyu Islands - 1168.

Tahiti - 3035.

Tonga - 3011.

Western Samoa [N. Z. Adm.] - 2583, 3011, 4140.

OTHER

World:
General Population Studies and Theory - 3005, 4007, 4018, 4024, 4036.
Regional Population Studies - 1051, 1076.
Spatial Distribution - 1091, 1101, 2102, 3070.
Trends in Population Size - 1104, 1119, 4136.
Mortality - 1190, 2182, 3168.
Characteristics - 2320.
Demographic and Economic Interrelations - 2326, 4379, 4380, 4385-4387, 4408.
Other Interrelations - 4444, 4445.

Intercontinental:
General Population Studies and Theory - 1017, 2006, 3008, 3019, 4007, 4016, 4037, 4041.

Intercontinental (cont.)
Regional Population Studies - 3064.
Spatial Distribution - 1089, 2105, 3078.
Trends in Population Size - 4170.
Mortality - 1173, 1180, 1196, 1197, 1199, 2155, 2160, 2177, 2192, 4188, 4201, 4205, 4240.
Fertility and Natural Increase - 2223, 3223, 3242.
International Migration - 1259, 2244, 3264.
Internal Migration - 2258, 3476, 4320.
Characteristics - 2284.
Demographic and Economic Interrelations - 1357, 1361, 1378, 2332, 4379, 4380, 4385-4387, 4408.
Other Interrelations - 1389, 2369.
Policies - 1414, 1419, 1420, 1424, 2428, 4454, 4478.
Methods of Research and Analysis - 4494.
Organization and Administration - 1442, 2461, 2486, 2489, 2490, 4500, 4502, 4505, 4513.
Professional Meetings and Conferences - 4523, 4527-4530.
Bibliographies - 1476, 4539, 4547.
New Periodicals - 1484, 1485.
Official Statistical Publications - 3601-3603, 4619, 4620.

American Nations - 2471, 2493, 2504, 3486, 4329.

Arctic - 1335.

Caribbean Area - 1067, 1347, 3249, 4295.

French Community - 3600, 4068.

Latin America - 1021, 2035, 2260, 3345, 3512, 3514, 3524, 4481, 4513, 4514, 4537.

Mediterranean Area - 3346.

Middle East - 2124, 2248, 2322.

AUTHOR INDEX

-A-

Aas, Dagfinn - 4316.
Abbey, Helen - 1192.
'Abd al-Razzāq al-Hilāli - 1285.
Abd-el-Atty - 3597.
Abdur Rauf - 1229.
Abhayaratne, D. E. R. - 2154.
Abonnenc, E. - 2059.
Abou-Zeid, A. M. - 3406.
Abraham, Sidney - 3296.
Abramson, J. - 2276.
Abril Morales, José - 1200, 3190.
Accioly Borges, Thomas Pompeu - 3512.
Achterstraat, J. - 4103.
Acsádi, György - 1051, 1230, 3007, 3021, 3161, 3297.
Adams, Edith - 1120.
Adams, Georgia E. - 2032.
African Studies Association - 1478.
Agarwala, S. N. - 3463, 4241, 4261.
Agra University. Institute of Social Sciences - 1479.
Agüera Fernandez, F. - 3377, 3433.
Ahlberg, Gösta - 3022.
Ahronheim, J. H. - 3203.
Ahvenainen, E. K. - 4187.
Aird, John S. - 1440, 4064.
Akbar, A. - 2211.
Åkerman, Gustaf - 1386.
Albania. Drejitoria e Statistikes [Statistical Office] - 2536.
Albinski, Henry S. - 2421.
Alchian, Armen K. - 1466.
Aleati, Giuseppe - 1025.
Alegría, María - 3298.
Alekseev, V. - 2462.
Algeria. Cours Préparatoire aux Affaires Sahariennes - 1108.
Algeria. Service d'Information - 1109.
Algeria. Service de Statistique Générale - 1553, 3044, 3358, 3592, 4609.
Alison, F. - 1143, 3132.
Allan, T. M. - 4182.
Allen, Francis R. - 2335.
Allen, Gordon - 2286.
Almänna Danske Laegeforening - 3125.
Alsing, I. - 4175.
Alström, Carl - 1026.
Alvarez, Leonel - 3514.
Alves Morgado, Nuno - 3045, 4065.
Alzina Caules, J. - 3046.
Amark, C. - 3217.
Amato, Vittorio - 1130, 4242.
Amatora, Sr. Mary, O. S. F. - 3393.
Ambrosio, G. - 2146.
American Association for the Advancement of Science - 4521.
American Economic Association - 4520.
American Farm Economic Association - 3506.
American Geographical Society - 4548.
American Medical Association. Council on Foods and Nutrition - 4385.
American Sociological Society - 1480, 4521.
American Statistical Association - 1464-1466, 4522.
Amundson, Robert H. - 4475.
Anderson, Elving - 1177.
Anderson, Nels - 1089.
Anderson, Walfred A. - 1283.
André, Jacques - 4045.
Anfre, Jean - 4104.
Angelo, Giangiacomo dell' - 3511.
Anghene, M. - 4497.
Anglés, Cipriano - 4147.
Antoine, M. - 2158.
Antonietti, Alessandro - 2494.
Anwar, Aziz A. - 1346, 4374.
Aoki, Hisao - 4262, 4263.
Apthorpe, R. J. - 3401.
Aragão, Sylvia da C. - 1257.
Arasaratnam, S. - 1488.
Arbelo Curbelo, A. - 1154, 3133, 3135, 4196.
Archer, M. - 1173.
Archibugi, Franco - 4400.
Argentina. Dirección Nacional de Estadística y Censos - 3545, 4568.
Argentina. Dirección Nacional de Migraciones - 2511.
Arias B., Jorge - 1334, 2477.
Ariès, Philippe - 4001.
Arieti, Silvano - 3312.
Armentrout, W. W. - 3506.
Armstrong, Terence - 1335.
Aromin, Basilio B. - 4389.
Arputhanathan, J. I. - 1541.
Arsen'eva, M. A. - 1397.
Aruthiunov, S. A. - 3330.
Arvay, Sándor - 1238.
Asaad, Ramses W. - 2090.
Aschmann, Homer - 2060.
Ascoli, G. d'. - 3256.
Ask-Upmark, E. - 2162.
Association of American Geographers - 4523.
Astrup, Ch. - 1468.
Attal, Robert - 4363.
Atteslander, Peter - 2368.
Auerbach, Frank L. - 2422.
Aune, Hazel V. - 3464.

Australia. Commonwealth Bureau of Census and Statistics - 3598.
Australia. Commonwealth Bureau of Census and Statistics. Western Australia Office - 2580.
Australia. Commonwealth Immigration Advisory Council - 3257.
Australia. Laws, Statutes, etc. - 3449.
Australia. New South Wales. Cumberland County Council - 2408, 4155.
Australia. Queensland. Land Settlement Advisory Commission - 1408.
Australia. Queensland. Laws, Statutes, etc. - 3465.
Austria. Bundesministerium für Soziale Verwaltung - 3550.
Austria. Statistisches Zentralamt - 1131. 1144,1178, 1201, 1217, 1242, 1243, 1508, 2137, 2537, 3120, 3240, 3550.
Austria. Vienna. Magistrat der Stadt - 3191.
Azevedo, Aroldo de - 2104.

-B-

Babchuk, Nicholas - 4264.
Bachmura, Frank T. - 2256.
Back, Kurt W. - 2193.
Backer, Howard S. - 2360.
Backer, R. de - 1358.
Baer, Gabriel - 4359.
Bagchi, A. K. - 3342.
Bager, Rachel - 4156.
Baggaley, Andrew R. - 1395.
Baird, D. - 2144.
Baird, R. - 3209.
Bakács, István - 2033.
Baker, Paul T. - 4531.
Baker, Tanya - 2379.
Balaban, Vojislav - 3517.
Balakrishnan, V. - 2279.
Balandier, Georges - 2008.
Balazs, P. - 1469.
Balevski, D. - 1444, 4326.
Ballester Ros, Ignacio - 2105, 4134.
Balseinte, R. - 1052.
Ban, Milenko - 3517.
Banco de México. Biblioteca - 3518.
Banco Nacional de México - 2393.
Bancroft, Gertrude - 3515.
Bandettini, Pierfrancesco - 3507.
Banerjee, H. N. - 1542.
Banks, A. L. - 3218.
Bansil, P. C. - 2127, 4375.
Baranowicz, Edward - 3478.
Barata, J. F. Nuñes - 3056.
Barberis, Corrado - 1409.
Barcinski, F. - 3070.
Bardhi, H. - 4176.
Barnett, Harold J. - 4444.
Barsy, Gyula - 1158.
Barták, V. - 1225.
Bascom, William - 2379.
Bastiani, Laurent - 1053.
Bastide, Henri - 4011.
Bastié, Jean - 2106, 4105.
Bauer, Raymond A. - 1078.
Baum, Samuel - 1327.
Bausinger, Hermann - 2262.
Bauvir, Louis - 4066.
Beadler, George W. - 3411.
Beardsley, Richard K. - 2091.
Beattie, Walter., Jr. - 4429.
Bebarta, Prafulla C. - 2212.
Beckman, L. - 1244.
Bedenić, Branko - 4504.
Beegle, J. Allan - 3331.
Begtić, Mustafa - 3517.
Beguinot, C. - 2061.
Beijer, G. - 2242.
Belgian Congo. Direction de la Statistique - 2569, 4611, 4612.
Belgium. Institut National de Statistique - 2062, 2122, 2194, 3047, 3121, 3192, 3243, 3258, 3552, 4571.
Belgium. Ministère des Colonies - 4085.
Belgium. Ministère de la Santé Publique et de la Famille - 3551.
Belgium. Ministère du Travail - 2289.
Belgium. Ministère du Travail. Office National du Placement et du Chômage - 2538.
Bell, Howard H. - 1027.
Belson, William A. - 2434.
Belyk, N. - 1434.
Bene, Lajos - 1445, 3479.
Benjamin, Bernard - 1001, 3514, 4502, 4513.
Bennett, F. J. - 4208.
Bennigsen, A. - 3248.
Berfenstam, R. - 4217.
Berg, Béa J. van den - 1152, 3162, 4195.
Bergmann, Denis R. - 2358.
Bergues, Hélène - 4001.
Bernhard, Paul - 3421.
Bernhard, Roberto - 2396.
Berque, J. - 3406.
Berry, Brian J. - 4106.
Bertrand, Alvin L. - 4128.
Beshers, James M. - 1465, 1466, 4485.
Bettencourt, Jose De Sousa - 4299.
Bettini, Emilio - 1416.
Bettison, David G. - 3401, 4067.
Beveridge, Ronald M. - 4310.
Bhabha, Homi J. - 1232.
Bhouraskar, D. M. - 4455.
Bielecki, J. - 4486.
Bilbija, Zarko G. - 4090.
Biometrics Society - 4530.
Biraben, J.-N. - 1153, 4495.
Bird, Mary - 2379.
Birkner, Hans - 2313, 4345.
Biswas, S. - 2278.
Black, John D. - 4376.

Black, W. B. - 3343.
Blacker, J. G. C. - 1202.
Blake, Judith - 3422.
Blanc, Robert - 4068.
Bloodworth, Jessie A. - 4371.
Blum, Harold F. - 3163.
Boek, J. K. - 2317.
Boek, W. E. - 2317.
Bogue, Donald J. - 1002, 2449, 3514.
Bogusz, W. - 2341.
Bohidar, N. R. - 4522.
Boîarskii, A. IA. - 1446, 2001, 2463, 3007.
Bolle, Theda - 2342, 3378.
Bonač, Vladimir - 2224.
Bondarenko, V. V. - 2464.
Bonfante, Giuliano - 2316.
Bonné, A. - 3379.
Bonser, G. M. - 2451.
Borah, Woodrow W. - 4046, 4048.
Borgström, Carl A. - 2432.
Borges, Thomas P. A. - 3512.
Boros, Ferenc - 1085.
Borrie, W. D. - 1054, 1083, 2369, 3344.
Borts, George H. - 3386.
Bosch-Marin, J. - 1154, 4196.
Boulding, Kenneth E. - 1015.
Bourgeois-Pichat, Jean - 4071.
Boverat, Fernand - 1104.
Bowles, Gladys K. - 4327.
Bowring, J. R. - 2257.
Boyd, William C. - 2026.
Boyd, Willis - 1028.
Boyne, A. W. - 3309.
Brackett, James W. - 4171.
Bradáč, O. - 2145.
Bradley, D. R. - 2293.
Bardley, William L. - 4456.
Bramhall, David - 2495.
Brandão Lopes, Juarez Rubens - 3512.
Brandt, Ilse - 3219.
Brasil, Maria C. - 1203, 1218, 1277.
Braudel, Fernand - 4002.
Bravo, B. - 1435.
Brazil. Bahia. Fundação Comissão de Planejamento Econômico - 3434.
Brazil. Conselho Nacional de Estatística - 3077.
Brazil. Conselho Nacional de Estatística. Laboratório de Estatística - 1110, 1159, 1203, 1218, 1257, 1277, 1292, 3345, 4360.
Brazil. Conselho Nacional de Estatística. Núcleo de Planejamento Censitário - 3480-3482, 3546.
Brazil. Instituto Brasileiro de Geografia e Estatística - 2533.
Breas, Jean - 2160.
Brewster, John M. - 3506.
Brichler, Marcel - 4105, 4503.
Brigham Young University - 4129.
Brittain, John A. - 2435.
Brockington, Fraser - 1076.
Brooke, C. O. B. - 1179.
Brooke, Eileen M. - 3310.
Brookfield, H. C. - 4092.
Brown, Bonnar - 2290.
Brown, C. Harold - 3506.
Brown, L. B. - 1398.
Brown, Phillips H. - 3274.
Brugarola, Martín, S. J. - 2394.
Bruk, S. I. - 3330.
Bruno, Vincenzo - 3511, 4197.
Brunsman, Howard G. - 1467, 4522.
Bruyere, Donald E. - 3093.
Btesh, S. - 2171.
Buck, Roy C. - 3506.
Bues, Hermann - 2291.
Bugelli, Delmas A. - 1102.
Bulgaria. Ministerski Suvet. TSentralno Statistichesko Upravlenie - 1509.
Bullón Ramírez, Antonio - 2370.
Buquet, Léon - 2063, 4003.
Burch, Thomas K. - 4380.
Burkhardt, Felix - 2155, 4188.
Burn, A. R. - 3023.
Burnet, Macfarlane - 1417.
Burney, Leroy E. - 3164.
Burnight, Robert G. - 3071, 3098.
Burt, Cyril - 1302, 1306.
Burtt, Everett J., Jr. - 4157.
Bussey, Ellen M. - 4476.
Bustinza Ugarte, Pedro - 1204.
Butler, E. B. - 1278.

-C-

Calcutta Statistical Association - 2465.
Calderone, Mary S. - 4278.
Calhoun, R. A. - 4243.
California Heart Association - 3519.
California. State Department of Finance. Budget Division. Financial and Population Research Section - 1111.
Callender, Willard D. - 3071.
Camacho, Luis G. - 4244.
Cambodia. Ministère du Plan. Direction de la Statistique et des Etudes Economiques - 1538.
Cameroons. [Fr. Adm.] Service de la Statistique - 1554.
Camilleri, Santo F. - 1466, 1467.
Campbell, Arthur A. - 1465, 1466, 3541.
Campbell, Hugh K. - 2292.
Canada. Department of Citizenship and Immigration - 2496, 3259, 4364.
Canada. Department of Labour - 3359, 4401.
Canada. Dominion Bureau of Statistics - 1112, 1490-1492, 2123, 2293, 3286, 4555.
Canada. Manitoba. Department of Agriculture and Immigration. Social and Economic Research Office - 2317.
Canada. Women's Bureau - 2294.
Canadian Jewish Congress. Bureau of Social and Economic Research - 1481.
Canarp, Curt - 3108.
Canepari, Maria - 2034.

Cantorne, Jean-Claude - 2371.
Cardim, Fernando P. - 1203.
Caribbean Commission - 1347.
Carleton, Robert O. - 3515, 4522.
Carone, G. - 1103.
Carrier, N. H. - 1425, 4078.
Carreira, António - 2250.
Carroll, John J., S. J. - 4280.
Carrothers, Gerald A. P. - 2495.
Cartwright, Ann - 2487.
Carvalho, Alceu Vicente W. de - 1105, 1110, 1292.
Cascaes Brasil, Maria - 1203, 1218, 1277.
Casey, R. C. D. - 4457.
Castellan, Georges - 2372.
Castro Aragão, Sylvia da - 1257.
Cavalli-Sforza, L. L. - 3509.
Cavanilles, Antonio J. - 3024.
Caves, Richard E. - 2355.
Center for the Study of Democratic Institutions - 4468.
Central African Republic. Service de la Statistique Générale. Mission Socio Economique. Centre Oubangui - 4610.
Central African Statistical Office - 1055, 1258, 1336, 1555-1559, 2571, 4613, 4614.
Cépède, Michel - 3346.
Cermelj, Lavo - 1056.
Ceylon. Department of Census and Statistics - 1539, 4594.
Ceylon. Department of Labour - 4298.
Ceylon. National Planning Council - 1121, 1122.
Chaigneau, Yves - 3360.
Chaklin, A. V. - 1180.
Chambers, J. D. - 4059.
Champion, Yves - 2389.
Chand, G. - 2064.
Chandrasekaran, C. - 1057, 1232, 3514.
Chandrasekhar, Sripati - 1145, 2065, 2466, 4069.
Chang Pei-Gang - 1020.
Chang-Rodríguez, Eugenio - 2035.
Chapelle, Jean - 1388.
Chardonnet, Jean - 3078.
Charlton, J. L. - 2308.
Chasteland, Jean-Claude - 4177.
Chavrid, Vladimir D. - 4522.
Chehabe Ed-Dine, Saïd - 4107.
Chen, William Y. - 1174.
Cherin, Gabriel - 4522.
Chesneaux, Jean - 4004.
Chevalier, François - 2497.
Chevalier, Louis - 1068, 2008.
Chiang Shan - 4015.
Chiaro, Adolfo del - 3511, 4005.
Chiassino, Giuseppe - 3511, 4199.
Childs, James B. - 2506.
Chile. Servicio Nacional de Salud. Sub Departamento de Bioestadística - 1505.
Chin, Tom D. Y. - 4218.
China. People's Republic. State Statistical Bureau - 4595.
China. Republic. Directorate-General of Budgets, Accounts and Statistics - 2558.
Chmura, Julian - 4047.
Cho, Wan Kyoo - 1065, 1294.
Chollet, P. - 2158.
Christensen, Harold T. - 1205.
Christiansen, John R. - 4129.
Ch'u Pao-yi - 4015.
Chung-kuo Fu-nu - 3220.
Church, R. J. Harrison - 2379.
Ciocco, A. - 3124.
Cisneros Cisneros, Cesar - 1279.
Clark, Andrew H. - 3025.
Clark, F. le Gros - See Le Gros Clark, F.
Clark, J. R. - 3309.
Clark, Philip J. - 1219.
Clarke, John I. - 3287.
Clemens, Helmut - 4108.
Cocozza, G. - 2146.
Coe, Paul F. - 1286.
Coffey, Victoria P. - 3207.
Cohen, Bernice H. - 1220, 2026, 2266.
Cohen, Sanford - 1359.
Cole, Dorothy A. - 3208.
Collins, Selwyn D. - 4538.
Colombia. Bogotá. Oficina de Planificación. Departamento de Investigación - 1123.
Colombia. Departamento Administrativo Nacional de Estadística - 2066, 2120, 2138, 2234, 2467.
Colombia. Departamento Administrativo Nacional de Estadística. Distrito Especial de Bogotá - 4569.
Colombia. Departamento Técnico de la Seguridad Social Campesina - 2092.
Combs, Jerry W. - 1327, 4070.
Comhaire-Sylvain, Jean - 3466.
Comhaire-Sylvain, Suzanne - 3066, 3466.
Commission for Technical Co-operation in Africa South of the Sahara - 2491.
Committee of Planning Librarians - 3520.
Community Council of Greater New York - 4109.
Community Research Associates, Inc. - 4484.
Comparative Studies in Society and History - 2512.
Confederazione Generale dell'Industria Italiana - 1280.
Connecticut. General Assembly. Interim Committee on Public Welfare and Humane Institutions - 4484.
Conover, Helen F. - 3521, 4541.
Conseil International des Sciences Sociales - 1252.
Constanzo, Alessandro - 3511.
Conway, J. - 1306.
Cook, Robert C. - 1348.
Cook, Sherburne F. - 2093, 4046, 4048.
Cooper, Sophia - 4566.
Coppini, Mario A. - 3511.
Corbel, J. - 3048.

Corone, M. - 1143.
Corral Parra, Oscar - 2409.
Corry, B. A. - 4006.
Costa Leal, A. - 1127.
Costa Pinto, L. A. - 3397.
Costa Rica. Departamento de Estadísticas Sociales - 2519.
Costa Rica. Dirección General de Estadística y Censos - 1084, 3099.
Costanzo, A. - 1003.
Coulson, Elizabeth - 2231.
Coulter, Elizabeth J. - 2436, 4214.
Cousens, S. A. - 4049.
Cowhig, James D. - 4356.
Cowles, Raymond B. - 3410.
Cox, Peter R. - 4007, 4209.
Coyle, David C. - 3049.
Cozzolini, Anna M. - 1106.
Cragg, J. B. - 3402.
Cronin, John F. - 2002.
Crosson, J. William - 3221.
Croze, Marcel - 2067.
Csapody, Csaba - 2036.
Cuba. Consejo Nacional de Economía - 3100.
Cuba. Consejo Nacional de Economía. Departamento de Econometría - 2520.
Cuba. Oficina Nacional de los Censos Demográfico y Electoral. Tribunal Superior Electoral - 1493.
Culwick, G. M. - 1077.
Cumper, G. E. - 1360.
Cunha, A. J. da - 1268.
Curiel, Dario - 2452, 4219.
Curti, Merle - 2037.
Cutler, Sidney J. - 1181.
Cutter, Richard S. - 2508.
Cyprus. Financial Secretary's Office. Statistics Section - 1540.
Cyran, W. - 3165.
Czechoslovakia. Státní Uřad Statistický - 1160, 1510, 2068, 3553.
Czechoslovakia. Státní Zdravotnické Nakladatelství - 2539.

-D-

Dabb, R. G. - 1155.
Dagnino Pastore, José M. - 4110.
Dai Yuan-tchen - 2030.
Daly, Charles - 3166.
Danaraj, T. J. - 3150.
Dandekar, Kumudini - 1206, 2232, 2397.
Danilov, E. - 2462.
Dantín Gallego, J. - 3019.
Das, B. M. - 3050.
Das, Nitai Chandra - 1442.
Das Gupta, Ajit - 1318, 1427, 4233.
Datta, J. M. - 1331.
Datta, Nalinee - 1207, 2213, 4245.
Daumard, Adeline - 2038.
Dávid, Zoltán - 2039.
Davidovich, V. G. - 1091.
Davidson, B. R. - 4377.
Davis, C. D. - 4220.
Davis, Elizabeth G. - 4540.
Davis, Kingsley - 3422.
Davis, Morris - 2385.
Davis, R.-A. - 4221.
Davis, Sydney G. - 2325.
Dawber, Thomas R. - 3151.
Day, C. A. - 2047.
Dean, Geoffrey - 3152.
Debekan, A. - 3209.
Dedman, Ruth M. - 1083.
De Geer, Eric - 2041.
Del Chiaro, Adolfo - 3511.
Dell'Angelo, Giangiacomo - 3511.
Della Valle, Carlo - 3511.
Demaria, Giovanni - 1259.
Demeny, Paul - 3514.
Dencker, F. - 4175.
Denmark. Statistiske Departement - 1511, 3109, 3241, 3260, 3315, 3316, 3554, 4572.
Denmark. Sundhedsstyrelsen - 1512, 3555.
Denmark. Udvalget Angående Aendring af de Gaeldende Regler for Førelse af Folkeregistre [Committee concerning the changing of the present regulations on conducting the population register]. - 3483.
Denoix, P. F. - 3167.
De Rom, F. - 3168.
Dertsch, Richard - 1029.
Desai, M. P. - 3423.
Deschamps, Hubert - 2251, 2318.
Deshpande, S. H. - 1361.
Desmond, Annabelle - 1222.
De Sousa Bettencourt, Jose - 4299.
Deutsche Akademie für Bevölkerungswissenschaft an der Universität Hamburg - 4008, 4009.
Deutscher Städte- und Gemeindetag. Präsidium - 3530.
Deutsches Institut für Wirtschaftsforschung - 2343.
Devillers, Philippe - 2498.
Dewey, Richard - 4010.
Dhalla, N. K. - 3390.
D'îâkonov, F. V. - 3072.
Dice, Lee R. - 3453.
Dickinson, Frank G. - 3136.
Diégues Jr., M. - 2369.
Dietel, H. - 3169.
Dimnik, Ivan - 3517.
Dłuska, Teresa - 3522.
Dojcak, P. - 2172.
Dolejsi, V. J. - 1436.
Doll, R. - 3170.
Dol'skaîa, A. A. - 3001.
Domingos Filho, Virgílio - 3435.
Dominican Republic. Dirección General de Estadística - 2521, 2522.
Donnelly, R. C. - 2398.
Dopierala, Bogdan - 2069.

Dore, R. P. - 1004.
Dorn, Harold F. - 1169, 1181, 1465, 1466.
Doublet, Jacques - 1406.
Doucy, Arthur - 2295.
Douša, J. - 3455.
Dovring, F. - 1352.
Doyle, Joseph B. - 4265.
Drewniak, Bogusław - 4403.
Drillien, C. M. - 1303, 3210.
Driver, Edwin D. - 4251.
Dubled, Henri - 3026.
Dubrovin, P. I. - 1091.
Ducoff, Louis J. - 2340, 3347.
Duffy, James - 1030.
Duncan, Beverly - 2449, 2495, 4173.
Duncan, Otis Dudley - 2003, 2495, 4013, 4093.
Dunn, H. L. - 2453.
Durand, John D. - 3027, 4050.
Durandi, Luca - 2494.
Durgin, B. E. - 2257.
Duric, V. - 4524.
Dusseldorp, D. B. W. M. van - 3484.
Duszynska, E. - 3051.
Dykstra, John W. - 3002.

-E-

Eason, Warren W. - 1058, 1465, 2296, 2578, 4421.
East African Statistical Department - 2578.
East African Statistical Department. Tanganyika Unit - 3594.
Eastern Economist - 1314, 2004, 3348.
Eberhard, Wolfram - 1253, 3028.
Ebert, Manfred - 2139.
Eckardt, R. E. - 1170.
Eckoldt, G. - 4222.
Eckstein, Alexander - 4422.
Economist. London - 4458.
Ecuador. Dirección General de Estadística y Censos - 1482, 4570.
Ecuador. National Planning and Economic Coordination Board. Technical Division - 3512.
Ecuador. Núcleo de Estadísticos del Ecuador. Comisión de Censos - 3485.
Edding, Friedrich - 2246.
Edwards, A. W. F. - 2267.
Edwards, Angell - 3424.
Egermayer, Frantisek - 2070.
Egypt. National Planning Commission. Central Statistical Committee - 2570.
Eldridge, Hope T. - 1005.
Elkan, Walter - 1270, 3270.
Enequist, Gerd M. - 4130.
Enke, Stephen - 4378, 4459.
Enterline, Philip E. - 4223.
Epstein, Fritz T. - 4542.
Epstein, Leonore A. - 1381, 4434.
Erhardt, Carl L. - 1437.
Ericson, Anna-Stina - 4402.
Erkkilä, S. - 2163.
Erzin, N. - 1146.
Esser, George H., Jr. - 2410.
Estaupin, J.-L. - 1088.
Estienne, Pierre - 1059.
Estrangin, Louis - 2358.
Eugenics Society - 4487.
European Economic Community - 2344.
European Society for Rural Sociology - 3508, 4549.
Eversley, David E. C. - 1006..
Eynde-Ceulemans, C. van den - 3436.
Eyre, John D. - 1092.

-F-

Fabri, Marcel - 4158.
Fagley, Richard M. - 2005, 3004.
Faisandier, Claude - 1260.
Fajfr, František - 1447, 2468.
Falek, Arthur - 2492.
Falk Project for Economic Research in Israel - 4390.
Fallenbüchl, Zoltán - 1031.
Family Planning Association of India - 1231, 1232, 4525, 4460.
Family Planning Association of Pakistan - 1233, 4526.
Faran, Louis C. - 3335.
Farber, Bernard - 1426.
Faucheux, Jean - 2411.
Fawzi, Saad ed Dine - 1315.
Febvay, Maurice - 2197, 3197, 4160.
Federation of Jewish Philanthropies. Demographic Study Committee - 3110.
Feldheim, Pierre - 2295.
Feldt, Allan - 1432.
Ferber, Robert - 2115.
Ferber, W. L. - 2398.
Ferenbac, I. - 2071.
Fernández Cabeza, Jesús - 3298.
Ferreira Magluta, Hermínia - 1203.
Ferreri, C. - 3141.
Feshbach, Murray - 4518.
Feversham, Earl of - 4461.
Fiawoo, D. K. - 2379.
Figueiredo, Aureo Pinto de - 4360.
Figueiredo Murta, Domício de - 3437.
Filgueiras, Dulcy M. - 3383.
Filser, J. - 3171.
Findeisen, Hans - 1410.
Finland. Helsinki. Helsingin Kaupungin Tilastotoimisto [Municipal Statistical Office] - 2225, 2268, 3288.
Finland. Tilastollinen Päätoimisto - 1182, 1513, 3101.
Finland. Valtakunnansuunnittelutoimisto [National Planning Bureau] - 3094.
Fischlowitz, Estanislau - 3417.
Fisher, Ronald A. - 1183.
Flamm, Heinz - 2499.
Flory, Maurice - 1470.

Flowers, C. E., Jr., - 4266.
Fochler-Hauke, Gustav - 3283.
Foderaro, S. - 1411.
Folk, Ruma - 1465, 1466.
Fonseca, Gelson - 2226.
Fontes, Annibal R. - 1218.
Food and Agriculture Organization of the United Nations - 2500.
Forbes, R. J. - 4387.
Fordham, Jefferson B. - 2412.
Fosbrooke, H. A. - 3401.
Fourastié, Jean - 1007, 4436.
France. Archives Nationales - 2040.
France. Direction de la Documentation - 4135.
France. Institut National d'Etudes Démographiques - 1008, 1009, 1016, 1060, 1107, 1161, 2006, 4071, 4148, 4246.
France. Institut National d'Hygiene - 2173.
France. Institut National de la Statistique et des Etudes Economiques - 1184, 1514-1517, 2540-2543, 3052, 3556, 3557, 4159, 4160, 4224, 4344, 4391, 4573, 4619.
France. Institut National de la Statistique et des Etudes Economiques. Directions Régionales - 1518, 1519, 2297, 2544, 3053, 4111.
France. Ministère de la France d'Outre-Mer. Service de Statistique - 1560, 2072, 2073, 2454, 2573, 3600, 4619.
France. Ministère de l'Intérieur. Direction des Affaires Musulmanes - 3398.
France. Union Nationale des Caisses d'Allocations Familiales - 1245, 3558.
Franchi, Jean - 4112.
Frandsen, Erna - 3222.
Fraser, F. C. - 4254.
Freedman, Ronald - 3198
Freeman, T. W. - 1090.
Frejka, Tomáš - 3275.
[French Equatorial Africa.] Bureau Central de la Statistique et de la Mécanographie - 1053.
[French Equatorial Africa.] Ministère du Développement. Service de la Statistique et de la Documentation - 2575.
[French Guinea.] Service de la Statistique et de la Mécanographie - 2574.
[French West Africa.] Ministère du Plan de la Côte d'Ivoire. Service de la Statistique - 1560.
[French West Africa.] Service de la Statistique Générale - 2573, 2574.
Frère, Suzanne - 1061.
Freudenberg, Karl - 4189, 4225.
Freyhan, Fritz A. - 3311.
Frisén, Carl M. - 1465, 1466.
Frösch, Max - 2243.
Frumkin, Miriam Z. - 2373.
Frumkin, Robert M. - 2373.
Fujikura, Y. - 2214.
Fuller, James S. - 4498.
Fuller, Varden - 3438.
Furet, François - 2038.
Fürst, Gerhard - 1462, 2362, 4345.

-G-

Gabler, Wiktor - 2215.
Gabriel, Kuno R. - 1465, 1466, 4252.
Gadgil, D. R. - 3439.
Gailey, R. A. - 3090.
Galasso, G. de - 1281, 2061.
Galindo, L. - 4232.
Gallego y Burin, Alberto - 2469.
Gandhi, M. K. - 2216.
Garczynski, J. - 1316.
Garden Cities and Town Planning Association - 3440.
Gardiner, C. E. - 3134.
Garfinkle, Stuart H. - 2128.
Garigue, Philip - 2094.
Garn, S. M. - 3308.
Gasparini, Innocenzo - 1362.
Gear, H. S. - 1443.
Gedanken, Irving - 4519.
Geer, Eric de - 2041.
Geiger, Bernard - 1337.
Geisert, Harold L. - 2074.
Genetical Research - 4551.
Genschow, F. A. - 1268.
Gentry, John T. - 1226.
Geograficheskogo Obshchestvo SSSR, Moskovskii Filial [Geographic Society of the U.S.S.R., Moscow Chapter]. - 1091.
George, Pierre - 1010, 2008, 2107, 3005, 4136, 4379, 4527.
Germany, Gino - 3512.
Germany. Democratic Republic. Staatliche Zentralverwaltung für Statistik - 1293, 4574.
Germany. Federal Republic. Baden-Württemberg. Statistisches Landesamt - 3559.
Germany. Federal Republic. Bundesministerium für Arbeit und Sozialordnung - 1363, 1520, 2545, 3276.
Germany. Federal Republic. Bundesministerium für Vertriebene, Flüchtlinge und Kriegsgeschädigte - 1273.
Germany. Federal Republic. Mannheim. Statistisches Amt - 4575.
Germany. Federal Republic. Statistical Office - 4285.
Germany. Federal Republic. Statistisches Bundesamt - 1062, 1132, 1147, 1208, 1364, 1448, 1462; 1471, 1521, 2227, 2235, 2298, 3111, 3193, 3560, 3561, 4072, 4137, 4149, 4200, 4226, 4281, 4286, 4311, 4404.
Germany. West Berlin. Statistisches Landesamt - 1522, 3317, 3562, 4073, 4227, 4247.
Gerontological Society - 2492.
Gery, Frank W. - 1380.
Ghana. Office of the Government Statistician - 1561, 2572.

Gibbons, William J., S. J. - 4267, 4380.
Giese, Hans - 4268.
Gilbraith, K. M. - 2299.
Gilmore, Harlan W. - 3289.
Gini, C. - 3019.
Ginsburg, Norton - 1092.
Ginzberg, Eli - 1304.
Girard, Alain - 1171, 2008, 4011, 4210.
Girard, Pierre - 1032.
Giudici, E. - 3425.
Giurovitch, G. - 4094.
Gizburg, B. L. - 1091.
Gjukić, Mirjana - 4504.
Glass, Bentley - 1220, 1399, 2026, 2266.
Gleiss, J. - 4211.
Glick, Paul C. - 1255, 1449, 3199, 4522.
Glowinski - 3317.
Gnanasekaran, K. S. - 4161.
Godin, G. - 2073.
Goetz-Girey, Robert - 3350.
Goldberg, David - 2195, 2196, 3200.
Golden, Joseph - 2228.
Goldsmith, Selma F. - 4346.
Goldstein, Sidney - 1382, 1466.
Goldstone, Iago - 1255.
Gómara Dallo, Jacinta - 2356.
Gonçalves, Antônio C. - 2075.
Gonnet, P. - 4051.
Gonzales Galindo, A. - 3380.
González-Rothvoss y Gil, Mariano - 2236, 3019.
Goode, William J. - 3249.
Gopalaswami, R. A. - 2458.
Gordon, Charles - 2423.
Gordon, Margaret S. - 4405.
Gorer, P. A. - 2391.
Gorokhoff, Cecilia J. - 4537.
Gorrie, R. Maclagan - 4381.
Göttlicher, Erich - 2424.
Grabill, Wilson H. - 1002.
Grajevsky, A. L. - 2229.
Gramm, Hermann - 1011.
Grant, Alan - 2203.
Great Britain. Central Office of Information - 2124, 4470.
Great Britain. Central Statistical Office - 3142.
Great Britain. Colonial Office. African Studies Branch - 2413.
Great Britain. General Register Office, England and Wales - 1532, 2076, 3579.
Great Britain. Home Office [England and Wales] and Scottish Home Department - 4461.
Great Britain. Interdepartmental Committee on Social and Economic Research - 3523.
Great Britain. Ministry of Health - 3299, 4228, 4229.
Great Britain. Ministry of Housing and Local Government - 3441.
Great Britain. Ministry of Labour - 1317, 1365, 1366.
Great Britain. Ministry of Pensions and National Insurance - 1383.
Great Britain. Scotland. Department of Health. Regional Research Unit - 3281.
Greco, George - 4147.
Greece. Ethnikē Statistikē Hypēresia - 2546.
Greef, G. de - 1376.
Green, L. P. - 2386.
Greenhill, J. P. - 3223.
Greer, Scott - 3408.
Gregory, Ian - 1305.
Greville, Thomas N. E. - 3149.
Grieken, E. van - 2501.
Grieken Taverniers, Madeleine van - 2501.
Grigolo, B. - 2204.
Gros, C. M. - 3172.
Gross, Edward - 1450.
Grosse, Hans - 3007.
Grosso, E. - 2174.
Grounds, J. G. - 4328.
Grove, Robert D. - 3457.
Grushka, Th. - 3469.
Grusin, H. - 2190.
Guatemala. Dirección General de Estadística - 2455, 2456, 2523.
Guerra Alvarez, Fidel A. - 2077.
Guerreiro, Amaro D. - 3527.
Guha, Meera - 1093.
Guitton, Henri - 2007.
Gulbrandsen, Odd - 4162, 4323.
Gulliver, P. H. - 2319.
Guralnick, Lillian - 2436.
Gurvitch, Georges - 2008.
Gutiérrez de Alles, J. L. - 3019.
Gutiérrez Roldán, Héctor - 3514.
Gutman, Robert - 1438, 2457, 4012.

-H-

Habakkuk, H. J. - 3006.
Haenszel, William - 1185, 2437, 3173.
Hagemeyer, Maria - 1407.
Hagen, Everett E. - 4392.
Hagert, C. G. - 2207.
Hagood, Margaret S. - 3420.
Hain, E. - 2164.
Haiti. Institut Haïtien de Statistique - 1494.
Halbwachs, Maurice - 4013.
Haldane, J. B. S. - 2438.
Halevi, H. S. - 4365.
Hallgren, Bertil - 4341, 4342.
Halpert, Max - 2374.
Halsey, A. H. - 1306.
Hama, Hidehiko - 4138, 4300.
Hamilton, C. Horace - 2252.
Hammond, E. Cuyler - 1186.
Hammons, Helen - 4014.
Hancock, Richard H. - 2240.
Handlin, Oscar - 2375, 2376.
Hanes, John W., Jr. - 4477.
Hanna, Frank A. - 2300.

Hansen, Morris H. - 1465, 1466, 4522.
Hardin, Garrett - 3336.
Harewood, Jack - 4382.
Harker Valdivieso, Roberto - 3261.
Harlan, William H. - 2492.
Harmsen, Hans - 3442.
Harrison, G. A. - 4533.
Harrison, John A. - 4089.
Harrison, R. G. - 1209.
Harte, Thomas J. - 4496.
Hartelius, Hans - 1187.
Hartman, Tor - 1124.
Hasan, Riffat Sultana - 1274.
Hathaway, Dale E. - 3515, 4520.
Hauk, Mary U. - 3327.
Hauser, Philip M. - 1465, 1466, 2009, 2010, 3337, 3391, 3407, 4173, 4445.
Haverstock, Nathan A. - 3524.
Hawaii. State Planning Office - 4535.
Hawaii. Territorial Planning Office. Committee of Planning Librarians - 1472.
Hawkins, Norman G. - 2377.
Hawley, Marion H. - 4347.
Hayashi, Shigeru - 4253, 4406.
Hayoun, Joseph - 4160.
Heads, J. - 2329.
Heady, J. A. - 4212.
Health Information Foundation - 3153.
Heasman, M. A. - 2191.
Hegarty, Edward J. - 4074.
Hein, Clarence J. - 1396.
Heiss, Jerold S. - 3244.
Helaissi, A. S. - 3406.
Hemmerle, Josef - 2502.
Henry, Louis - 1033, 4001, 4016, 4246, 4488.
Henton, Comradge L. - 2198.
Herdan, G. - 1172.
Herder, J. - 2269.
Herer, W. - 4423.
Hermann, Gerhard - 2301.
Herner, Eva - 2475.
Herold, G. - 2399.
Hertig, A. T. - 3211.
Hetmanek, Allan - 1320.
Heusinkveld, Harriet M. - 3029.
Heyn, H. - 1275.
Heyn, Wolfgang - 2439.
Hicks, J. R. - 2326.
Hidalgo Rodríguez, Lidia - 3100.
Hill, George W. - 3514.
Hill, Jeanie - 4493.
Hill, R. W. - 3525.
Hill, Reuben - 1389.
Hillhouse, Margaret - 1185.
Hirschler, Imre - 1234.
Hirzel, Robert K. - 4119.
Hlady, W. M. - 2317.
Ho Chien-chang - 4015.
Ho Ping-ti - 1034, 2042.
Hodgkinson, William, Jr. - 1465, 1466, 3514.
Hoen, P. C. A. 't - 4532.
Hoffman, Lois N. - 2199.
Höijer, Ernst - 3095.
Holton, Richard H. - 2355.
Holub, József - 2043.
Holyst, B. - 4462.
Holzer, J. - 1125, 4312.
Honda, Tatsuo - 4269, 4407.
Hong Liang-ki - 4004.
Honohan, W. A. - 4075.
Hooton, Earnest A. - 1297.
Hoover, Edgar M. - 2108.
Hornseth, Richard A. - 4522.
Horowitz, C. Morris - 3110.
Horstmann, Kurt - 2362.
Horvath, Robert - 2011.
Horwitz, Abraham - 3174.
Hougham, George M. - 3387.
Howe, G. Melvyn - 3175.
Hoyos Sáinz, L. de - 3019.
Hoyt, Homer - 3079.
Hrom, Stanisław - 3467.
Hughes, Rufus B. - 1377, 2200.
Hugon, Jean - 4255.
Hulse, Frederick S. - 4531.
Hultgren, Gösta - 3224, 4230.
Hung, Fu - 2327.
Hung Liang-chi - 4038.
Hungary. Központi Statisztikai Hivatal - 1483, 1523, 3563, 3564, 4139, 4576.
Hungary. Központi Statisztikai Hivatal. [Name of county] Megyei Igazgatóság - 4577.
Hungary. Magyar Tudományos Akadémia - 3007.
Hungary. Magyar Tudományos Akadémia. Földrajztudományi Kutatócsoport - 1085, 1094.
Hunt, I. L. - 3030.
Hurault, Jean - 1338.
Hurst, H. R. G. - 2241.
Husain, A. F. A. - 1367.
Husain, K. Sadiq - 1232.
Hutchinson, Bertram - 1332, 3201, 3512.
Hutchinson, E. P. - 1012.
Hutchison, Robert S. - 4474.
Hüttig, Friedrich-Karl - 3031.
Huxley, Julian - 1232, 4024.
Hyppölä, Jorma - 1451.
Hyrenius, Hannes - 1162.

-I-

IAstrebov, A. F. - 1188.
Iglésies, Josep - 3032.
Ikeda, Y. - 3245.
Illinois. State Department of Public Health - 3176.
Inaba, Masaharu G. - 2330.
India. Assam. Department of Economics and Statistics - 4309.
India. Census Commissioner - 1541.
India. Controller of Emigrant Labour - 2425.

India. Department of Economic Affairs - 1318, 1368, 1427.
India. Directorate-General of Health Services - 1543, 4550.
India. Ministry of Labour and Employment. National Employment Service - 2345.
India. Office of the Registrar General - 1542, 2458.
Indian Statistical Institute - 1368, 2346, 2470.
Indonesia. Kementerian Perburuhan - 2302.
Indonesia. Treaties, etc. - 1418.
Inkeles, Alex - 1078.
Institut Français d'Afrique Noire - 2574.
Institut de Sociologie Solvay - 1376.
Institute of Jewish Affairs. World Jewish Congress - 2320.
Institute for the Study of the U.S.S.R. - 4536.
Instituto Ecuatoriano de Antropología y Geografía - 4366.
Inter-African Committee on Statistics - 3468, 3502, 3503.
Inter-African Labour Institute - 2241, 3270.
Interamerican Statistical Institute. Instituto Interamericano de Estadística - 2471, 2493, 3486, 4329.
International African Institute - 1284.
International Arts and Sciences Press - 2513.
International Catholic Migration Commission - 2244.
International City Managers' Association, 45th Annual Conference - 3407.
International Congress of Genetics, Tenth - 3509.
International Federation of Agricultural Producers - 2258.
International Fertility Association - 3531.
International Labour Office - 1261, 2414, 3008, 3262, 3263, 3318, 3381, 3426, 4301, 4408.
International Labour Organisation - 2488, 2489.
International Planned Parenthood Federation - 3510.
International Social Security Association - 1484.
International Sociological Association - 1389.
International Statistical Institute. Institut International de Statistique - 1485, 3601, 4528, 4529.
International Union for the Scientific Study of Population - 1013, 4008.
Iragorri V, José M. - 4076.
Iran. Ministry of Interior. Public Statistics Cooperative Organization - 2559, 4596.
Ireland. Central Statistics Office - 1262, 1524, 3361, 3565.
Irving, James - 3401.
Isaac, Julius - 2369, 3264.
Isard, Walter - 2495.
Iscovici, Paul - 4348.
Ishihama, Atsumi - 3225.
Iskrant, Albert P. - 3177.
Israel, Sarah - 1210, 1232.
Israel. Central Bureau of Statistics - 4349.
Israel. Ministry of Health - 3469.
Israelsson, B. - 4489.
Italy. Centro di Documentazione - 4478.
Italy. Istituto Centrale di Statistica - 1525, 1526, 2547, 2548, 3143, 3487, 3566, 4578.
Italy. Istituto Nazionale di Economia Agraria - 2494.
Italy. Presidency of the Council of Ministers. Information Service - 1246.
Italy. Presidenza del Consiglio dei Ministri. Servizio Informazioni - 1063, 2140, 2147, 2175, 2303, 2304.

-J-

Jackson, H. - 3226.
Jacobson, Benjamin D. - 4270.
Jacobson, Paul H. - 1247.
Jacoby, E. G. - 2129.
Jaffe, A. J. - 2331, 3514.
Jalavisto, Eeva - 3456.
Japan. Bureau of Statistics - 1113, 1544, 1545, 2560, 3102, 4597.
Japan. Ministry of Health and Welfare - 1439.
Japan. Osaka. General Affairs Bureau - 2078.
Japan. Statistical Standards Bureau - 2472.
Japan. Tokyo. General Affairs Bureau - 2561.
Japan. Welfare Minister's Secretariat. Division of Health and Welfare Statistics - 1546, 1547.
Japan. Welfare Ministry. Division of Health and Welfare Statistics - 4598, 4599.
Japan. Welfare Ministry. Institute of Population Problems - 4017.
Japanese National Commission for UNESCO - 2473.
Jarrett, Henry - 3411.
Jarvik, Lissy F. - 4198.
Jauhari, A. S. - 3080.
Jayawardena, C. - 4287, 4294.
Jecklin, H. - 2141.
Jessop, W. J. E. - 3207.
Jimenez Girona, José - 2176.
Jimeno, Esther - 2044.
John, A. H. - 4059.
Johnson, D. Gale - 4520.
Johnson, James H. - 4052.
Johnston, Bruce F. - 4383.
Jolliffe, N. - 1173.
Jones, G. Mary - 2363.

Jones, K. W. - 3306.
Jordan. Ministry of National Statistics - 2562.
Jores, A. - 2165.
Josefowicz, Adam - 2079.
Josephine, C. S. J., Sister - 2166.
Joshi, V. R. - 3277.
Josífko, Marcel - 4335.
Jung, H. D. - 3178.
Jupp, Kathleen M. - 2583.
Jureček, Zdeněk - 1211, 1452, 3194.

-K-

Kabuzan, V. M. - 3033.
Kaern, T. - 2148.
Kahanpää, K. H. - 1064.
Kaigl, Vl. - 4302.
Kállay, István - 2045.
Kallner, Gertrude - 2149.
Kamat, Melba - 1232, 3418.
Kamat, R. G. - 3418.
Kang, Yung Sun - 1065, 1294.
Kangas, Veikko - 1235.
Kannisto, Vaino - 1538.
Kantner, John F. - 4077.
Kaplan, Isadore - 3154.
Kaplan, Lawrence J. - 3110.
Kapolnai, Ivan - 1035.
Karmarkar, D. P. - 2004.
Karnatak University. Department of Social Anthropology - 4552.
Karvonen, M. - 1298.
Kato, M. - 2177.
Katsh, S. - 1227.
Katz, Arnold - 3319, 4566.
Kaufman, Walter C. - 3408.
Kautsky, A. - 1148.
Kázsmér, Rózsa - 1212.
Keding, G. - 3169.
Keilin, S. L. - 4183.
Kelly, George A. - 4018.
Kelsall, R. K. - 1369.
Kelso, Alec J. - 4447.
Kentucky. State Department of Health - 1503.
Keyfitz, Nathan - 4522.
Keys, Ancel - 3300.
Khan, Mohammed H. - 3328.
Khan, Mohd. N. - 3091.
Khérumian, Rouben - 2205.
Khorev, B. S. - 1091.
Kiranov, P. - 3362.
Kirchoff, H. - 1189.
Kirk, Dudley - 1465, 1466.
Kislégi Nagy, Dénes - 4019.
Kiss, István - 1086
Kita, Yaseiichi - 2233.
Klat, Paul-J. - 1315.
Klauzer, Jagoda - 3517.
Klauzer, L. - 1240.
Klawe, H. - 3126.
Klebaner, Benjamin J. - 1036.
Klein, Sidney - 1463.
Kleiner, Robert J. - 1400.
Klinger, András - 1230, 2474.
Kloepfer, H. Warner - 4020.
Klove, Robert C. - 1467.
Knauer, Arnold - 4424.
Knobloch, H. - 3400, 4256.
Knutson, Jeanne N. - 2095.
Kobayashi, Kazumasa - 4140, 4313.
Koblenzer, P. J. - 4078.
Kochanovskov, Ivan - 4141.
Koenig, Elizabeth - 2507.
Kollai, Helmut R. - 2245.
Koller, S. - 4350.
Köllmann, Wolfgang - 1037, 2253.
Kolta, János - 3073.
Kono, Shigemi - 4409.
Konstantinov, G. F. - 4593.
Kopanev, A. I. - 1038.
Korbler, J. - 3179.
Kordos, J. - 4425.
Korea. Ministry of Health and Social Affairs - 4602.
Korea. Ministry of Home Affairs. Bureau of Statistics - 3587, 4600, 4601.
Korenčić, Mirko - 3517.
Koster, Paul - 2400.
Köster, Reinhard - 2378.
Kovacsics, Josef - 4086.
Kovalev, S. A. - 1091.
Koya, Tomohiko - 4271.
Koya, Yoshio - 3227, 4271.
Kozlov, V. S. - 3054.
Kozlowska, Ewa - 1066.
Kozłowski, Czesław - 3522.
Krader, Lawrence - 1440, 3016, 3406.
Krallert, Gertrud - 2246.
Kraus, A. S. - 3137.
Krause, John T. - 2012, 3009.
Kriegel, Richard C. - 2305.
Krinchev, Kh. - 4463.
Krishman, T. N. - 2347.
Kristoff, Frank S. - 1467.
Kroeber, A. L. - 2013.
Krupinski, J. - 1133.
Kruyer, G. J. - 3228.
Krysztofowicz, I. - 4190.
Kučera, Milan - 1014, 1126, 1510, 2070, 2277, 3144.
Kulcsár, Kálmán - 1390, 4438.
Kuptzin, Harold - 2348, 3375.
Kuroda, Toshio - 4021.
Kuyp, E. van der - 1067.
Kuznets, Simon - 4022.

-L-

Lackinger, Otto - 2080.
Lackó, Miklós - 3363.
Lacognata, Angelo - 4264.
Lacoste, Norbert - 1391.

Ladame, Paul A. - 1419.
Ladurie, Emmanuel L. - 4053.
Lagasse, Jean H. - 2317.
Lah, Ivo - 3517.
Laird, Dorothy S. - 2287.
Laitman, Morris - 2206.
Lamartine Yates, Paul - 4384.
Lamser, Václav - 4095.
Lancaster, H. O. - 1134.
Lancet - 3526.
Landis, Benson Y. - 1473, 2315.
Lanne, T. - 4217.
Larimore, Ann E. - 1095.
Larnaud, Jean - 1420.
Laroque, Pierre - 1406.
Larsson, Folke - 3504, 4517.
Larsson, Tage - 3412, 3414.
Lasheras Sanz, A. - 3019.
Lasis, IU. V. - 1091.
Lasker, Gabriel W. - 4531.
Lasorsa, Giovanni - 3392.
Lasserre, Guy - 2109, 3074, 3081.
Latil, M. - 2332.
Latuch, M. - 1254, 3488.
Lauenstein, J. D. - 2263.
Laughlin, W. S. - 4336.
Laurent, R. - 2366.
Laurentiis, G. de - 2282.
Lauriat, Patience - 1221, 1222.
Laurence, Pope A. - 1174.
Laws, Donald F. - 4332.
Lawton, R. - 2046.
Lazerwitz, Bernard - 3082.
Leal, A. Costa - 1127.
Lebergott, Stanley - 1370.
Leca, Mme. - 1384.
Ledermann, Sully - 2160, 2392, 3145, 4201, 4213, 4231.
Lee, Rose Hum - 4367.
Legaret, Jean - 1068.
Legendre, Pierre - 3450.
Le Gros Clark, F. - 1371.
Leguérinais, J. - 1190.
Lehfeldt, Hans - 3229.
Leibenstein, Harvey - 2333.
Leidlmair, Adolf - 2081.
Lemberg, Eugen - 2246.
Lemmi, Cesare - 3511.
Lemon, Frank R. - 3160.
Lengyel, Alfred - 1039.
Lenton, Lloyd - 4368.
Lenz, W. - 3212.
Lenzi, Romolo - 4410.
Leonard, William R. - 4505.
León-Portilla, Miguel - 1339.
LeRay, Nelson L. - 3364.
Leridon, Françoise - 1378.
Leroy, Louis - 1287.
Leser, C. E. V. - 2349.
Leslie, P. H. - 2014.
Lestapis, S. de, S. J. - 4023.
Lestchinsky, Jacob - 2321.
Le Tourneau, Roger - 3083.
Lettrich, Edit - 3034.
Leurquin, Philippe - 4087.
Leven, Charles L. - 2334.
Levi, Eugenio - 1163.
Levi, Werner - 1421.
Levine, Lena - 1232.
Levisohn, Arthur A. - 3427.
Lewis, E. D. - 4054.
Libya. Ministry of National Economy. Census Department - 4615.
Lichtenberg, F. - 4232.
Lijfering, J. H. W. - 3382.
Lilienfeld, A. M. - 3137.
Lim Joo Hock - 4605.
Lin Shen-mu - 4015.
Lindahl, Jan - 4272.
Linder, Forrest E. - 3457.
Lindh, Thure - 2475.
Lindsten, J. - 2207.
Link, R. G. - 2361.
Lipscomb, Wendell R. - 1175.
Little, Kenneth L. - 2379.
Liu, B. A. - 4490.
Liu, C. H. - 1138.
Livingstone, Frank B. - 1401, 4448, 4531.
Lloyd, P. C. - 2379.
Loboda, I. - 3092.
Locke, Ben Z. -4449.
Loeben, Arthur F. - 1465, 1466.
Loenig, Elizabeth - 4543.
Logachev, I. - 3489.
Logan, W. P. - 2167, 2178.
London County Council - 4585.
Loomer, Harlin G. - 1466, 1467.
Lopez, Alvaro - 3514.
Lopez Valencia, Federico - 3388.
Lordello de Mello, Diogo - 3443.
Lotte, A. - 2179.
Louisiana Agricultural Experiment Station, Baton Rouge - 4128.
Lowe, C. R. - 3301.
Lowenthal, David - 2097.
Loyo, Gilberto - 4163.
Lubbock, Texas. Department of Planning - 2110.
Luce, R. W. - 4411.
Ludwig, E. - 2263.
Luna-Vegas, Ricardo - 3490.
Lunder, F. - 1096.
Lupori, Nello - 3511.
Lüth, P. - 2142.
Lutovac, M. - 2254.
Lutsenko, G. E. - 2208.
Lux, André - 4113.
Luxembourg. Office de la Statistique Générale - 3103, 3567-3569.

-M-

Ma Ying-ch'u - 3010.
McArthur, Norma - 2503, 3011.
McArthur, W. C. - 2306.

McCamman, Dorothy - 4430.
McDermott, Walsh - 3067.
McDonald, E. M. - 1548.
Macháček, E. - 3470.
Mackensen, Rainer - 4439.
McLaren, D. S. - 1228.
McMahan, C. A. - 2156, 4178.
Macura, Miloš - 1353, 3250, 3517, 4393, 4506.
Madagascar. République Malgache [Malagasy Republic] - 4088.
Maddox, James G. - 4520.
Madigan, Francis C., S. J. - 2161.
Magluta, Hermínia F. - 1203.
Magnier, P. - 2217.
Mahalanobis, P. C. - 4394, 4451.
Mahavir - 1289.
Mahler, Raphael - 4055.
Maine Farmer - 2047.
Maisel, Sherman J. - 4288.
Maitland, Sheridan T. - 4356.
Maixner, Jiří - 3471.
Makanas, Elpidio D. - 4507.
Malaya. Chief Registration Office - 1548.
Malkani, N. R. - 2415.
Mallaradhya, J. B. - 1542.
Mallart, J. - 3019.
Malmqvist, M. G. D. - 2082.
Malta. Central Office of Statistics - 2549, 3570-3573, 4579.
Malta. Department of Emigration, Labour and Social Welfare - 1527.
Malta. Office of Statistics - 1528.
Malthus, Thomas R. - 1015, 4024.
Malý, Vladimír - 4335.
Malzberg, Benjamin - 1307-1309, 3312, 4343.
Mamoria, C. B. - 1340.
Mancuso, Thomas F. - 4214.
Mandrou, Robert - 2048.
Mangin, William P. - 2259.
Maquet, J. J. - 3401.
Marbach, Giorgio - 3195.
Marfaing, Jean L. - 4028.
Marino Flores, Anselmo - 2270.
Marinucci, Cesare - 2118.
Marotta, Michele - 1392.
Marshall, Douglas G. - 1069.
Marshall, J. T. - 3096, 4522.
Martin, E. - 3389.
Martin, L. V. - 4179, 4209.
Martin, Margaret E. - 4522.
Martin, Yves - 4114.
Martinez, Pedro Daniel - 2159.
Marton, Zoltán - 1310, 3138.
Mary Amatora, O. S. F., Sister - 3393.
Masland, Richard L. - 3413.
Massa Gil, Beatriz - 3518.
Master, Arthur M. - 3302.
Mastroianni, L., Jr. - 3230.
Mathew, N. T. - 1299.
Matos Mar, José - 3512.
Matsunaga, Ei - 2026.
Mattila, John M. - 1355.
Matveev, G. P. - 1091.
Maude, H. E. - 3035.
Maujol, L. - 3167.
Mauldin, W. Parker - 4464.
Maurer, Hans-Joachim - 3231.
Mauritius. Legislative Council - 4411.
Maxia, C. - 2280, 2390.
Mayer, A. - 3428.
Mayer, Jean - 4158.
Mayer, Kurt - 2015, 2016.
Mazlin, H. G. - 1191.
Mazzaferro, Luciano - 3409.
Mazzoleni, A. - 2174.
Mazzoleni, Giuseppe P. - 4314, 4330, 4351.
Medawar, P. B. - 4025.
Medeiros, Laudelino T. - 3399.
Meggett, M. J. - 3068.
Mehlan, Karl-Heinz - 1149, 3232.
Mehta, G. L. - 2401.
Mehta, Surinder K. - 2307.
Meireles, Artur M. de - 2250.
Meissner, F. - 3265.
Melgaço Filgueiras, Dulcy - 3383.
Mello, Diogo L. de M. - 3443.
Mendes, Alfonso - 2311.
Mendras, Henri - 2008, 4324.
Menger, Wolfganger - 1040.
Menges, Walter - 2246.
Merkov, A. M. - 1016, 1164.
Merrett, J. D. - 3155.
Metropolitan Life Insurance Company - 1135, 2143, 2168, 2180, 4180, 4337.
Metz, Bernard - 4231.
Metzler, William H. - 2308.
Miall, W. E. - 3303.
Michalup, Erich - 1165.
Michel, Andrée - 4289, 4290.
Michigan. Legislative Advisory Council on Problems of the Aging - 2271.
Michigan State Medical Society - 3180.
Michigan. State University of Agriculture and Applied Science, East Lansing. Vietnam Advisory Group, Saigon. Field Administration Division - 2247.
Middleton, Russell - 4522.
Midwest Sociological Society - 3532.
Mihçioğlu, Cemal - 1477.
Mikat, Berthold - 1132.
Mikes, Gábor - 3290.
Miklasz, Constant - 4452.
Milbank Memorial Fund - 4026.
Mills, Wilson R. - 4115.
Miltényi, Károly - 1404.
Minakawa, Yuichi - 4056.
Minami, Ryozaburo - 4394.
Mincer, Jacob - 4520.
Minkov, M. - 4326.
Mints, A. A. - 1091.
Mirkin, V. - 3489.
Mironenko, IU. P. - 3055, 4508.
Mirville, Solon - 4361.
Misra, P. - 1542.

Mitchell, J. Clyde - 1271, 3401.
Mitchell, Sheila - 1369.
Mitra, Asoke - 2465.
Mitra, Subodh - 4233.
Mód, Aladárné - 4440.
Modrzewska, K. - 3036.
Moelmann, Albert - 1467.
Molina, V. - 4338.
Molinari, Alessandro - 1372.
Moline, Edwin G. - 2328.
Molner, J. G. - 3472.
Mols, Roger - 3037.
Monteil, Vincent - 3406.
Montmollin, Maurice de - 1311.
Mookherji, Sudhansu B. - 4057.
Moore, Frederick T. - 1097.
Morais, J. J. Paes - 1127.
Morgado, Nuno A. - 3045, 4065.
Morales Vergara, Julio - 3514.
Moran, Carlos M. - 3443.
Morin, Francis - 4279.
Morita, Yuzo - 2473.
Moriyama, Iwao M. - 1140, 2459, 4191, 4234.
Morris, J. N. - 3156.
Morris, Morris D. - 4441.
Morrison, Frank S. - 1070.
Morsa, J. - 1376, 3202.
Morse, Richard M. - 2111.
Mortara, Giorgio - 1159, 1385, 1428, 3345, 3514, 4027, 4028, 4079, 4202.
Moser, Claus A. - 2440.
Mota, Márcio R. - 1203.
Motulsky, Arno G. - 4531.
Mourant, A. E. - 3304, 4029.
Mueller, H. - 4192.
Muhsam, H. V. - 3406, 3514, 4491.
Mukherjee, Radhakamal - 1232.
Mukherjee, S. - 2278.
Müller, Georg - 2416.
Muller, Hermann J. - 3454.
Mulligan, L. C. - 3012.
Münke, Stephanie - 3365.
Muñoz Baeza, Jorge - 1453.
Muramatsu, M. - 3233, 4273.
Murdock, George P. - 3332.
Murphy, Douglas P. - 1192.
Murta, Domício de F. - 3437.
Musil, Jiří - 1098, 1166.
Mustacchi, P. O. - 1429.
Myers, Jerome K. - 2380.
Myers, Robert J. - 2083, 3112.
Myrianthopoulos, N. C. - 2017.
Myton upon Swale, Eng. (Parish) - 2049.

-N-

Naddeo, Alighiero - 3122.
Nagy, Lajos - 2050.
Naik, T. B. - 1341.
Nakajima, T. - 2218.
Namboodiri, N. K. - 2279.
Natale, Francesco - 2057.
National Capital Planning Commission - 4116.
National Capital Regional Planning Council - 4116.
National Committee on Maternal Health, Inc. - 4539.
National Council of Churches - 2315.
National Industrial Conference Board - 2130.
National Institute of Economic and Social Research - 2514.
National Manpower Council - 2350.
Naulko, V. L. - 2464.
Navarro Domínguez, Orencio - 1193.
Naville, P. - 2351.
Nederlandse Vereniging voor Economische en Sociale Geografie - 4532.
Nedoma, K. - 1225.
Neel, James V. - 2026.
Nehru, Jawaharlal - 1232.
Neiva, A. H. - 2369.
Nellner, Werner - 2246.
Nelson, Phillip J. - 2255.
Nelson, Richard R. - 4395.
Nemeskeri, J. - 3021.
Nemo, J. - 2072.
Nepal. Department of Statistics - 2563.
Netherlands. Centraal Bureau voor de Statistiek - 1114, 1529, 1530, 3574, 4580.
Netherlands. Department van Sociale Zaken en Volksgezondheid - 3366.
Netherlands. Ministerie van Sociale Zaken en Volksgezondheid. Commissaris voor de Emigratie - 3266.
Netherlands. Ministerie van Sociale Zaken en Volksgezondheid. Directie voor de Arbeids voorziening - 1319.
Netherlands. Rijksdienst voor het Nationale Plan. Commissie voor Regionale Bevolkingsprognoses - 3113.
Neumann, G. - 2181.
Nevett, Albert, S. J. - 4030.
New Hampshire. State Department of Employment Security - 3320.
New Hampshire. State Planning and Development Commission - 1115.
New Jersey. Department of Conservation and Economic Development - 4164.
New York Academy of Medicine - 1255.
New York Academy of Science - 2391.
New York State. Commission Against Discrimination - 1342.
New York State. Department of Health. Office of Statistical Services and Research - 3542.
New York State. Division of Employment - 4331.
New York University. Graduate School of Public Administration and Social Service - 1477.
New Zealand. Department of Labour - 4303, 4412.

New Zealand. Department of Statistics - 2581, 2582, 3599, 4618.
New Zealand. House of Representatives - 2131.
New Zealand. Ministry of Works. Town and Country Planning Branch - 2515, 4142.
Newcomb, Robinson - 2112.
Newcombe, H. B. - 2441, 3013.
Newth, J. A. - 2125, 4291.
Neyman, Jerzy - 1430.
Ng Bickleen Fong - 4369.
Nicholls, William H. - 4396.
Nichtweiss, Johannes - 3271.
Nicol, B. M. - 3338.
Niddrie, David L. - 2098.
Nigerian Economic Society - 1486.
Niitamo, O. E. - 3321.
Nikonchik, O. K. - 4465.
Nilsen, Norman O. - 4352.
Nimkoff, M. F. - 4522.
Njegic, Radmila - 3517.
Nolleau, Henri - 2309.
Nordic Committee on Social Welfare Statistics - 4581.
Nordsieck, Marie - 3296.
Nordström, Olof - 4058.
Nortman, Dorothy L. - 1465.
Norton, Alice A. - 2244.
Norton, J. W. R. - 4274.
Norway. Arbeidsdirektorat - 2550.
Norway. Statistisk Sentralbyrå - 3575, 3576.
Nour, Mustafa M. - 4397.
Novak, K. - 1150.
Novosel'skii, S. A. - 1016.
Nuñes Barata, J. F. - 3056.
Nunley, Robert E. - 2099, 4096.
Nusbaum, D. G. - 1301.

-O-

Obes Polleri, J. - 2150.
Obradović, Sava - 3459.
Ochoa, Elena de - 4219.
Ogburn, William F. - 2335, 2360.
Ogino, Shimako - 4215.
Ohkawa, Kazushi - 1373.
Okada, K. - 2233.
Akasaki, Ayanori - 4117, 4466.
Okinshevich, Leo A. - 4537.
Oliver, C. P. - 2391.
Ono, Kazuichiro - 1263.
Opler, Marvin K. - 1255.
Oppenheimer, W. - 2219.
Oregon. Bureau of Labor. Research and Information Division - 4352.
Orekhov, K. - 2476.
Orel, H. - 1148, 4193.
Orellana G., Rene A., - 2477.
Organización Sindical Española - 3322.
Organization for European Economic Co-operation - 2310.
Orleans, Leo A. - 4097.
Orlicsek, Jozsef - 1087.
Osborn, Frederick - 4024.
Oshima, Harry T. - 1354.
Osnadik, Lucie - 2442.
Osoinach, John C. - 1426.
Osorio Zamalloa, Adriel - 3069.
Osservatorio di Economia Agraria per la Sicilia - 2264.
Österreichischer Familienbund - 1256.
Owen, Leonard - 3038.
Owens, Gerald P. - 3282.
Oyarzún Salinas, Carlos - 3514.

-P-

Padley, Richard - 1441.
Paes Morais, J. J. - 1127.
Pagella, Mario - 3511.
Paillat, Paul - 4431.
Pakistan. Office of the Census Commissioner - 1549, 2564.
Pakistan. [Office of the Director-General of Health.] - 2565.
Palerm, Angel - 2381.
Palermo, Università. Facoltà di Economia e Commercio - 3146.
Pallós, Emil - 1158.
Pan American Union. Section of Labor, Migration and Social Security - 2504.
Panama. Dirección de Estadística y Censo - 2524.
Pande, J. K. - 2465.
Pandolfi, A. M. - 1429.
Pandya, B. V. - 1333.
Panero, Mario - 4165.
Paraguay. Dirección General de Estadística y Censos - 3104, 3547, 3548.
Paraguay. Treaties, etc. - 2426.
Pardo Perez, María Pilar - 3075.
Parker, Seymour - 1400.
Parsons, Talcott - 2360.
Pasamanick, Benjamin - 3400.
Patterson, David - 4308.
Pavlík, Zdeněk - 1041, 2018, 4315.
Pecelj, G. - 1296.
Peiper, A. - 2157.
Pejovic, T. - 2443.
Penculescu, Gh. - 4497.
Pennell, Maryland Y. - 4538.
Penners, Theodor - 3039.
Pennsylvania. State Department of Health - 1504, 4181.
Pennslyvania. State Department of Health. Division of Statistics and Records - 2530, 2531.
Penrose, Lionel S. - 4031.
Pentland, H. C. - 2051.
Perceval, Louis - 2119.
Peregrino Junior, Peregrino A. - 2281.
Pereira, Jorge dos Santos - 2132, 3114.

Pereira Cardim, Fernando - 1203.
Perez, Bernardino A. - 4032.
Perez Camarero, Arturo - 2052.
Périsse, J. - 2096.
Perlman, Jacob - 2450.
Perpiña, R. - 3019.
Peru. Dirección Nacional de Estadística y Censos - 1506.
Peru. Servicio Cooperativo Interamericano de Salud Pública - 2534.
Péter, György - 3007.
Petersen, William - 4033.
Peterson, John M. - 3274.
Petriccione, S. - 2061.
Petrilli, Giuseppe - 4304.
Petroci, S. - 1042.
Pfanzagl, Johann - 3458.
Pfautz, Harold W. - 4013.
Pfeifer, Dorothea - 1256.
Phelan, John L. - 2053, 2054.
Philadelphia Housing Association - 4471.
Philippines. Bureau of Census and Statistics - 1248.
Philippines. Manila Health Department - 4221.
Philippines. 1960 Census - 4509.
Philippines. Social Security Commission - 2516.
Philippon, J.-B. - 3057.
Phillips, Doris G. - 1288.
Phillips, E. J. - 1551, 4604.
Pickard, Jerome P. - 2113.
Pickford, R. W. - 2205.
Pieris, Ralph - 1488.
Pihlblad, C. T. - 4316.
Pinchemel, P. - 2417, 4098.
Incus, Gregory - 1209.
Pinède, Christiane - 1043, 1264.
Pinkel, Donald - 2169.
Pinner, Walter - 2248.
Pinto de Figueiredo, Aureo - 4360.
Piotrowski, J. - 3367.
Pirie, N. W. - 3339, 3402.
Piyaratn, Prapont - 3181.
Planhol, X. de - 3278, 3406.
Planned Parenthood Federation of America - 1236.
Pocock, D. C. D. - 3444.
Podgornik, Nada - 3517.
Podiachikh, P. - 2478.
Podlaska, Z. - 4248.
Podoluk, J. R. - 2293.
Pohoski, M. - 1282, 4325.
Pokshishevskii, V. V. - 1091.
Poland. Główny Urząd Statystyczny - 1487, 2551, 2552, 3147, 3291, 3491.
Polk, Kenneth - 1394.
Pollitzer, Robert - 2182.
Polskie Towarzystow Economiczne Sekcja Statystyki - 3533.
Polunin, I. - 3213.
Poncet, Jean - 2100.
Ponniah, S. - 1237.
Pontanus, F. - 4353.
Poole, T. R. - 4257.
Population Investigation Committee -2019.
Population Problems Research Council. Mainichi Newspapers - 2220.
Population Reference Bureau - 1222, 3058, 4292.
Portugal. Agência Geral do Ultramar - 3058.
Portugal. Direcção Geral de Previdencia e Habitações Economicas - 3429.
Portugal. Instituto Nacional de Estatística - 1531, 2055, 3527, 4582.
Portugal. Ministério das Obras Publicas. Direcção-Geral dos Serviços de Urbanização - 4472.
Portugal. Ministério do Ultramar. Junta de Investigações do Ultramar - 2311.
Portuguese India. Repartição Central de Estatística e Informação - 2566.
Postan, M. M. - 1044.
Poston, B. R. - 2317.
Potapov, A. - 3406.
Poti, S. J. - 1079.
Potter, E. L. - 1141.
Potter, Robert G., Jr. - 2221, 4275, 4276.
Poviña, A. - 3019.
Powell, M. - 3123.
Powesland, P. G. - 4317.
Prais, S. J. - 4349.
Prakash, Som - 2336.
Prékopa, András - 3007.
Prescott, J. R. V. - 2387.
Pressat, Roland - 1017, 4080, 4413.
Pressnell, L. S. - 4059.
Price, C. A. - 2369.
Price, Paul H. - 4131.
Principe, S. - 2282.
Prinsloo, Maria J. M. - 3368.
Priou, M. - 2418.
Prudente, A. - 1194.
Przelaskowski, W. - 1349.
Ptoukha, M. V. - 1128, 1454, 4510.
Puchta, H. G. - 2165.
Puerto Rico. Bureau of Labor Statistics - 4556.
Pulkkinen, Terho - 4414.
Puntoni, Vittorio - 2183.
Purshottam N. - 4525.

-Q-

Quensel, C.-E. - 4492.
Querido, A. - 4387.

-R-

Radkovský, Josef - 4235.
Rahim, Ali - 1474.
Raics, Jenö - 1238.
Rain, Emmanuel - 1406.

Rainwater, Lee - 4277, 4278.
Raivio, Arvi - 1249.
Ramharter, F. - 3182, 4236.
Ramsay, Charles E. - 1283.
Randenborgh, Horst van - 4281, 4282.
Randet, Pierre - 2107.
Rao, V. K. R. V. - 2004.
Rea, T. - 4118.
Redding, A. David - 3384.
Redlich, F. - 3040.
Reed, T. Edward - 3203.
Reeder, L. G. - 3157.
Rees, Brian - 4433.
Regional Science Association - 2495.
Reich, T. - 1195, 3185.
Reid, W. A. - 3183.
Réthati, Miklós - 4258.
Reuss, L. A. - 2299.
Review of the River Plate - 3451, 4479.
Reynolds, Earle E. - 4531.
Rhode, Gotthold - 2246.
Rhodesia and Nyasaland, Federation of. [Ministry of Economic Affairs] - 3349.
Rhodesia and Nyasaland, Federation of. [Ministry of Health] - 3593.
Rhodes-Livingstone Institute for Social Research, Eleventh Conference - 3401.
Riallin, Jean-Louis - 4467.
Ricciardi, Lucia - 2057.
Richard-Molard, J. - 1080.
Richardson, Alan - 2382.
Ridley, Jeanne C. - 1223.
Rigdon, R. H. - 1189.
Riquet, R. P. Michel - 4001.
Ristić, Kosovka - 3284.
Ristimäki, Toini - 3323.
Riviere, M. - 3184.
Rivlin, Alice M. - 2133.
Robbins, Carl T. - 1118.
Robbins, John - 1350.
Robbins, Sidney M. - 3084.
Roberts, Bertram H. - 2380.
Roberts, D. F. - 1213, 4533.
Roberts, J. A. Fraser - 4034.
Robertson, D. J. - 1374.
Robertson, E. J. - 3127.
Robinson, Elizabeth H. - 3204.
Robinson, Hilary I. - 2049.
Robinson, Warren C. - 1044, 3204.
Rochefort, M. - 2114.
Roda, R. de - 3019.
Roessingh, H. K. - 4035.
Rohrer, Wayne C. - 4119, 4327, 4332.
Roine, Paavo - 3305.
Rom, F. de - 3168.
Romania. Bucharest, Direcţia Orăşenească de Statistică - 3578.
Romania. Direcţia Centrală de Statistică - 2553, 3577.
Romero, F. - 3369.
Rondot, Pierre - 2322.
Roof, Michael K. - 1320, 3445, 4150.
Rooijen, J. P. van - 2444.
Ros Jimeno, José - 3196.
Rose, A. J. - 2237.
Rose, J. H. - 4522.
Rosenberg, Louis - 3059.
Rosenberg, Nathan - 2337.
Rosenfield, A. B. - 1142.
Rosenfield, Harry N. - 2423.
Rosenzweig Hernández, F. - 3446.
Ross, R. A. - 2170.
Rosset, E. - 2134, 4036.
Rossi, Dario - 3394.
Rossi, Peter H. - 2003.
Rossillion, Pierre - 4473.
Rostand, Jean - 2020.
Rostow, Walt W. - 3351.
Rotach, Rix H. - 2479.
Rother, Hans - 1123.
Rothert, Hermann - 1045.
Roubíček, V. - 1167, 1431.
Rouillon, A. - 2179.
Rousseaux, P. - 3436.
Rousseaux, Réné - 4305.
Rowley, Charles D. - 1265.
Roy Burman, B. K. - 1239.
Rozental', O. E. - 3014.
Rozman, David - 3279.
Rubin, Ernest - 1466, 2338, 3015.
Ruderman, Florence A. - 1465, 1466.
Russek, Henry I. - 2184.
Ruttan, Vernon W. - 2357.
Růžíček, Ladislav - 1214, 1295, 2070, 4203.
Ryan, Robert H. - 2135.

-S-

Sadie, J. L. - 4415.
Sagen, Oswald K. - 4522.
Sagi, Philip C. - 1465, 1466.
Sahagun Torres, Jesús - 2151.
Saharouni, Surem - 4060.
Saiduddin Ahmad, K. - 2272.
Saitta, Domenica - 2057.
St. John-Stevas, Norman - 4468.
Salamon, Lajos - 3292, 4184.
Sanchez Alberola, J. - 3324.
Sánchez Verdugo, J. - 3019.
Sandler, E. - 4259.
Sandner, Gerhard - 2419.
Sandon, Frank - 3313.
Sanin Echeverri, Jaime - 2402.
Santos, Milton - 4099.
Sanz Orrio, Fermin - 3452.
Sarc, Omer C. - 4120.
Sariola, Sakari - 3285.
Sarkar, S. S. - 3333.
Sarma, Jyotirmoyee - 2480.
Sasaki, E. - 3245.
Sato, Yasuko - 4237.
Saunders, Fred B. - 2306.
Saunders, J. V. D. - 1224, 3060.
Sauvy, Alfred - 1008, 1017, 1406, 2021,

2395,3019, 4001, 4004, 4037, 4148, 4453.
Savkar, D. S. - 2403.
Saxena, R. - 1343.
Sbrocca, L. - 2404.
Schapera, I. - 3402.
Scharnagel, W. - 3041.
Scheider, Theodor - 1273.
Schiffman, Jacob - 4566.
Schifrin, Leonard G. - 2135.
Schill, B. - 3214.
Schinz, H. R. - 1195, 3185.
Schleiffer, Agnes - 1212.
Schlenger, Herbert - 2246.
Schlesinger, Edward R. - 2152.
Schmelz, Oskar - 4370.
Schmid, Calvin F. - 1466, 1467.
Schmitt, Robert C. - 2367, 3334, 4283.
Schmucker, Helga - 2364.
Schnaider, L. A. - 1046.
Schneider, Kurt - 2022.
Schnittker, John A. - 3282.
Schnore, Leo F. - 2003, 3085, 3447.
Schrader, K. M. - 4185.
Schreiber, T. - 1422.
Schubert, G. - 3234.
Schubert, Jack - 1402.
Schubert, O. - 3473.
Schubnell, Hermann - 2023, 3251, 3252, 3492, 4293.
Schwarz, Karl - 1062, 1208, 2227, 2235, 2445, 3193, 4137, 4311, 4333.
Schwarz, R. C. - 3215.
Schwenk, Heinz - 3493, 4009.
Scott, Elizabeth L. - 1430.
Scott, L. S. - 3216.
Scott, Mel - 4121.
Scott, Peter - 1312.
Scragg, R. F. R. - 2084.
Scruggs, Otey M. - 4480.
Seaton, Fred A. - 3340.
Segal, Martin - 3086.
Sekiyama, Naotaro - 4061.
Seklandi, Mahmoud - 4151.
Selegen, Galina V. - 1455, 2085, 2086, 4081, 4511.
Selvaratnam, S. - 1122.
Semaines Sociales de France [Angers] - 2405.
Sen, S. C. - 3430.
Sengupta, S. - 3253.
Sentic, M. - 1296, 3459, 3517.
Seppilli, Tullio - 4442.
Seraphim, H.-J. - 2263.
Serra, Angelo - 3246.
Servizio Studi Economici - 3395.
Seymour, Sam F. - 1321.
Shackleford, J. H. - 4186.
Shaffer, James D. - 2446.
Shanthamma, N. S. - 4166.
Shaper, A. G. - 3306.
Sharp, Harry - 1432.
Sharpe, Evelyn - 4547.
Shaw, C. H. - 3314.
Sheikh, Farooq A. - 2222.
Sheldon, Henry D. - 4443, 4522.
Shepherd, Michael - 1313.
Shepukova, N. M. - 3033.
Sherburne, Ruth - 3279.
Shimamura, Toshihiko - 4306, 4416.
Shimkin, Demitri B. - 4143.
Shimkin, M. B. - 3173.
Shinichiro, Takakura - 4089.
Shinozaki, Nobuo - 4339, 4340.
Shipley, Paul W. - 4498.
Shnitnikova, Z. Z. - 1433.
Shrikhande, S. M. - 4525.
Shryock, Henry S., Jr. - 1465, 1466.
Siam. Central Statistical Office. Office of the National Economic Development Board - 4606.
Siau Giap - 3087.
Siegel, Bernard J. - 3016.
Siegel, Jacob S. - 1465, 1466.
Siesto, Vincenzo - 3511.
Šifrer, Živko - 3517.
Sigler, L. H. - 1176, 2185.
Siipi, Jouko - 3370.
Silberman, Leo - 3406, 4038.
Silcock, H. - 3158.
Silva Guimarães, Maria R. da - 2352.
Silva Neto, M. de L. A. da C. M. do Carmo da - 2055.
Simmons, Walt R. - 1466.
Simoons, Frederick J. - 4512.
Singapore. Colony - 1551.
Singapore. Immigration Department - 4605.
Singapore. Legislative Assembly - 1550, 2567, 3588, 4603.
Singapore. [Registry General] - 4604.
Singer, H. W. - 3352.
Singh, D. Bright - 2339.
Singh, Gurdev - 3385.
Singh, Ujagir - 3293.
Sinha, J. N. - 2201.
Sinitsyna, L. IA. - 2153.
Sirken, Monroe G. - 3474.
Sivaraman, U. - 1542.
Sjögren, Torsten - 3412, 3414, 4341.
Skoglund, P. O. S. - 2131.
Skogrand, A. - 3128.
Slutsky, Herbert - 3139.
Smet, Lucien de - 2087.
Smith, Bulkeley, Jr. - 1344, 2323.
Smith, Georgina M. - 4417.
Smith, Louis P. F. - 3061.
Smith, Raymond T. - 1266, 4294.
Smith, T. E. - 4499.
Smith, T. Lynn - 2260, 3017, 3294.
Smith, W. S. - 4259.
Smits, H. - 1290.
Smoliar, I. M. - 2101.
Smoliński, Zbigniew - 3325, 3494.
Smrha, K. - 3042.
Smuckler, Ralph - 2247.
Smulevich, B. IA. - 2460, 3018.

Smuts, Robert - 3371.
Sobajic, P. - 4318.
Sobotschinski, Arnim - 3505.
Socha, T. - 1316.
Sochacki, Włodzimierz - 3495.
Social Science Research Council - 4561.
Social Science Research Council of Australia - 2505.
Sociedad Médica de Chile - 1136.
Società Italiana di Economia Demografia e Statistica - 3511.
Société Française d'Economie Rurale - 2358.
Society of Actuaries - 4337.
Society for International Development - 2517.
Society for the Study of Fertility - 1209, 4259, 4553.
Society for the Study of Human Biology - 4533.
Soeharto, R. - 3235.
Solien, Nancie L. - 4295.
Solly, Marion W. - 4132.
Solomon, Ezra - 4090.
Solomon, S. H. - 2312.
Som, Ranjan Kumar - 1318, 1442, 2470.
Somjee, A. H. - 2388.
Sommer, K. H. - 3129.
Somogyi, Stefano - 3511.
Sotiroff, G. - 2024, 3186.
Spagnoli, Fernanda - 3511.
Spain. Consejo Social de la Organización Sindical Española - 3372.
Spain. Dirección General de Plazas y Provincias Africanas e Instituto de Estudios Africanos - 4091.
Spain. Instituto Balmes de Sociología - 3019.
Spain. Instituto Nacional de Estadística - 4583.
Spain. Ministerio de Trabajo - 4481.
Special Libraries Association [of Japan] - 1475.
Sperling, Hans - 2313.
Spiegelman, Mortimer - 4432.
Spivack, Sydney S. - 1465, 1466.
Spuhler, J. N. - 1219.
Sr. Josephina, C. S. J. - 2166.
Srb, V. - 1099, 2070, 3254, 3419, 4296, 4319.
Stadnik, M. - 1018.
Stanbery, Van Beuren - 4167.
Stanford Research Institute. International Industrial Development Center - 3353.
Stanford University. Food Research Institute - 3534.
Stark, Tadeusz - 1423.
Stasiak, A. - 3448.
Stassart, Joseph - 2025.
Staszewski, Józef - 2102.
Steigenga-Kouwe, Suzanne E. - 4532.
Stein, Robert L. - 4566.
Steinbach, G. - 2353.
Steinberg, Arthur G. - 2026.
Stenning, Derrick J. - 1284, 3403.
Stephan, Frederick F. - 1465, 1466.
Sterling, Theodor D. - 4450.
Stern, Curt - 2026.
Stevenson, Alan C. - 2283.
Steward, Julian H. - 3335.
Stewart, Charles T., Jr. - 4320.
Stiefel, E. - 3187.
Stocks, Percy - 1196, 1197.
Stössel, Rudolf - 2238.
Stpiczynski, T. - 2273, 4312.
Strait, W. F. - 3188.
Streib, G. F. - 2510.
Strøm, A. - 1156.
Strömmer, Aarno - 3115.
Stuckert, Robert P. - 2324.
Sturm, Albert L. - 1477.
Stycos, J. Mayone - 2193.
Styś, Wincenty - 3205.
Suarez, M. - 2284.
Sudan. Ministry for Social Affairs. Population Census Office - 4616.
Sundrum, R. M. - 1121.
Surinam. Welvaartsfonds Suriname - 1507.
Sutter, Jean - 2392, 4001, 4279.
Švarcová, Helena - 1019.
Sventoň, Ján - 1071, 2070, 4302.
Swanson, Helen - 4354.
Swaroop, S. - 2182.
Swaziland. Government. [Office of the Government Secretary.] - 1562.
Sweden. Statistiska Centralbyrån - 1322, 2554, 3148, 3307, 4082, 4168, 4204, 4584.
Sweetser, Frank L. - 4157.
Switzerland. Eidgenössisches Statistisches Amt - 2555, 3062.
Swyer, G. I. M. - 2209.
Sykes, J. - 1412, 3373.
Symposium on Genetics in Medical Research, University of Wisconsin, Madison, Wisconsin, April 7-10, 1958 - 2026.
Szabady, Egon - 2474, 4144, 4238.
Szabó, Emilné - 1310.
Szymanowski, Michal - 3496.

-T-

Tachi, Minoru - 4205, 4398.
Taeuber, Conrad - 1465, 1466, 3497, 3498, 3506, 4522.
Taeuber, Irene B. - 3063, 4039, 4152, 4522.
Taeuber, Karl E. - 4522.
Tajchman, S. - 3374.
Takagi, Naobumi - 4284.
Takes, C. A. P. - 4532.
Talmon-Garber, Yonina - 1393.
Tamásy, Josef - 1323.
Tamsma, R. - 1413.
Tanganyika. Labour Department - 2576.
Tanner, R. E. S. - 1213.
Tarjan, George - 2433.

Tartakower, Ariel - 4055.
Tarver, James D. - 2447, 3343, 4153, 4169. 4493.
Tasić, Dragoljub - 3517.
Tchang Pei-Gang - 1020.
Tennessee. General Assembly. Legislative Council Committee - 4474.
Terao, Takuma - 2473.
Terent'eva, L. N. - 3255.
Terleckyj, Nestor E. - 3084.
Texas Christian University. Leo Potishman Foundation - 3535.
Thaden, John F. - 4145, 4146.
Theiss, Ede - 3003.
Théodore, Gérard - 4068.
Theodore, M. G. - 3460.
Thieme, Frederick P. - 1300.
Thionet, P. - 3461.
Thirring, Lajos J. - 4355.
Thomas, Brinley - 3354.
Thomas, C. B. - 2186, 3308.
Thomas, Dorothy S. - 1465, 4022.
Thomas, Edwin N. - 4122.
Thomas, G. M. - 2451.
Thomas, John L., S. J. - 3247.
Thompson, A. M. - 2210.
Thompson, D. J. - 3124.
Thompson, J. W. - 4040.
Thompson, Warren - 4385.
Thompson, Wilbur R. - 1355.
Thorner, Alice - 1456.
Thorner, Daniel - 1456.
Thullen, P. - 2027.
Tibbitts, Clark - 4443.
T'ien, Feng-t'iao - 3431.
Tietze, Christopher - 3236, 3237, 4539.
Tinbergen, J. - 4387.
Tobata, Seiichi - 4426.
Togo. [Service Statistique.] - 4617.
Togoland (Fr. Adm.). Service de la Statistique Générale - 2577.
Tomasek, Robert D. - 2427.
Tönjes, Hans-Gert - 1324.
Torsi, Aldo - 3511.
Tortajada Pérez, José - 2056.
Townsend, Peter - 3404, 4433, 4386.
Trachsel, Peter - 3272.
Trifunoski, Jovan F. - 1291.
Trinidad and Tobago. Central Statistical Office - 1325, 2525.
Trow, Martin - 2360.
Trube, L. L. - 1091.
Truesdell, Leon E. - 4357.
Trzebiatowski, K. - 3405.
TSonev, V. - 1444.
Tucker, Marjorie - 2481.
Tufescu, Victor - 1100.
Tunkelo, Aarre - 3116, 3267.
Turco, C. - 2061.
Turkey. Istatistik Umum Müdürlügü - 3589.
Turner, H. A. - 1375.
Turner, Stanley H. - 1465.
Turvskaia, F. M. - 1301.
Tursunbayev, A. - 3406.
Tuyns, A. - 3168.

-U-

Uchida, Naosaku - 3528.
Ueda, Masao - 4249, 4334.
Ukil, A. C. - 1081.
Ullman, Morris B. - 2482.
Umbricht, V. - 3273.
Ungern-Sternberg, Roderich von - 1241, 3064.
Union of South Africa. Bureau of Census and Statistics - 2579, 3595.
U.S.S.R. [...A.S.S.R.] Statisticheskoe Upravlenie - 3586, 4590. (Daghestan, North Ossetian.)
U.S.S.R. Council of Ministers. Central Statistical Board - 1535.
U.S.S.R. [... Kray.] Statisticheskoe Upravlenie - 1537, 3583. (Altayskiy, Krasnodar, Primorskiy.)
U.S.S.R. Ministerstvo Zdravookhraneniia. Otdel Meditsinskoi Statistiki - 4593.
[U.S.S.R.] Nauchno-Issledovatel'skii Institut Truda Gosudarstvennogo Komiteta Soveta Ministrov SSSR po Voprosam Truda i Zarabotnoi Platy - 1326.
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U.S.S.R. R.S.F.S.R. TSentral'noe Statisticheskoe Upravlenie - 2557.
U.S.S.R. TSentral'noe Statisticheskoe Upravlenie - 2483, 2484, 2556, 3582, 4535, 4589.
U.S.S.R. Ukrainian S.S.R. [... Oblast.] Statisticheskoe Upravlenie - 3585, 4591. (Cherkassy, Drogobych, Ternopol'.)
U.S.S.R. Ukrainian S.S.R. Statisticheskoe Upravlenie - 4592.
United Arab Republic [Egypt]. Statistical Department - 3596.
United Nations. Bureau of Social Affairs - 1414.
United Nations. Bureau of Social Affairs. Population Branch - 3117, 3356, 3512.
United Nations. Department of Economic and Social Affairs - 1129, 2485, 3355.
United Nations. Department of Economic and Social Affairs. Population Branch - 3117, 3356, 3512.
United Nations. Economic Commission for Africa. Conference of African Statisticians - 3356.
United Nations. Economic Commission for Asia and the Far East - 3357.
United Nations. Economic Commission for Latin America - 3512, 4514.
United Nations. Economic and Social Council - 4170, 4454, 4513.

United Nations. General Assembly - 1424.
United Nations. Population Commission - 3513, 3514, 4041.
United Nations. Statistical Office - 1021, 2486, 2490, 3602, 4494.
United Nations. Technical Assistance Administration - 2340, 3420.
United Nations Educational, Scientific, and Cultural Organization - 1476, 3406.
United Nations Educational, Scientific, and Cultural Organization. Research Centre on the Social Implications of Industrialization in Southern Asia - 2448.
U. S. Agricultural Marketing Service - 3105, 4123, 4356.
U. S. Bureau of the Census - 1116, 1327, 1467, 1495-1497, 2126, 2526, 2527, 3106, 3107, 3529, 3538, 3539, 4154, 4171, 4172, 4357, 4515, 4518, 4557-4561.
U. S. Bureau of the Census. Foreign Manpower Research Office - 1457.
U. S. Bureau of Employment Security - 3375, 4519.
U. S. Bureau of Indian Affairs - 4371, 4372.
U. S. Bureau of Labor Statistics - 1328, 1498, 3515, 3543, 4419, 4427, 4565, 4566.
U. S. Bureau of Old-Age and Survivors Insurance - 4321.
U. S. Census Office. 7th Census, 1850 - 3499.
U. S. Civil Administration of the Ryukyu Islands. Office of Plans and Programs - 1168.
U. S. Congress. House. Committee on Interior and Insular Affairs - 1458.
U. S. Congress. House. Committee on the Judiciary - 4483.
U. S. Congress. House. Committee on Post Office and Civil Service - 4516.
U. S. Congress. Senate. Committee on Government Operations - 3020.
U. S. Congress. Senate. Committee on Labor and Public Welfare - 2365.
U. S. Congress. Joint Economic Committee - 4398, 4419, 4418.
U. S. Department of Agriculture - 4128, 4129, 4540.
U. S. Department of Health, Education, and Welfare. Office of Program Analysis - 4567.
U. S. Department of the Interior. Office of the Secretary - 3340.
U. S. Department of Labor - 4358.
U. S. Department of State - 2428.
U. S. Immigration and Naturalization Service - 2429, 3544.
U. S. Joint Publications Research Service - 2302, 2460, 3329, 4574, 4592, 4593.
U. S. Library of Congress - 2506.
U. S. Library of Congress. General Reference and Bibliography Division - 4541.
U. S. Library of Congress. Hispanic Foundation - 4537.
U. S. Library of Congress. Slavic and Central European Division - 4542, 4537.
U. S. National Committee on Vital and Health Statistics. Subcommittee on Fertility and Population Statistics - 1215.
U. S. National Health Survey - 2532, 3462.
U. S. National Institutes of Health. Library Section - 2507.
U. S. National Library of Medicine - 2508, 2518.
U. S. National Office of Vital Statistics - 1215, 1499-1502, 2449, 2528, 2529, 3149, 3540, 3541, 4562, 4563.
U. S. National Science Foundation - 2359, 2360.
U. S. National Science Foundation. Office of Special Studies - 2450.
U. S. Office of Area Development - 4123, 4172.
U. S. Operations Mission to Viet-Nam - 2568.
U. S. Public Health Service - 1403, 4538, 4544.
U. S. Public Health Service. Russian Scientific Translation Program - 4543.
U. S. Social Security Administration - 4434.
U. S. Social Security Administration. Bureau of Public Assistance - 4297.
U. S. Treaties, etc. - 2430.
U. S. Trust Territory of the Pacific Islands. [Office of] The High Commissioner - 1563.
Universidad de Chile. Instituto de Economía - 4322.
Universidade de Coimbra. Centro de Estudos Geográficos - 4100.
Università di Messina. Istituto di Geografia - 2057.
Università di Palermo. Scuola di Statistica - 4206.
Université de Bordeaux. Faculté de Droit et des Sciences Economiques - 4545.
Université Libre de Bruxelles. Institut de Sociologie Solvay - 1376.
Université Laval. Faculté des Sciences Sociales. Département de Sociologie - 4554.
Universiteit van Amsterdam - 4387.
University of Ankara. Institute of Administrative Sciences - 1477.
University of California, Berkeley. International Urban Research. Institute of International Studies - 1101.
University of Ceylon - 1488.
University of Chicago. Chicago Community Inventory - 4174.
University of Florida. Bureau of Economic and Business Research - 1329.
University of Glasgow. Department for the Study of the Social and Economic Institutions of the U.S.S.R. - 4546.
University of Malaya Economics Society - 1489.

University of Maryland. Bureau of Business and Economic Research - 3097.
University of Natal, Pietermaritzburg. Institute for Social Research, Durban - 4124.
University of North Dakota. Bureau of Business and Economic Research - 2314.
University of the Philippines. Institute of Hygiene - 4221.
University of Sydney. Department of Tutorial Classes - 1072, 1330, 3268.
University of Utah. Bureau of Economic and Business Research - 1117.
University of Wisconsin. Bureau of Government. University Extension Division - 4446.
Upadhyaya, Harcharan Lal - 1356.
Uribe Macip, Venus - 2270.
Urner, John B. - 1357.
Ustvedt, H. J. - 2187.
Utah Agricultural Experiment Station - 4129.
Utterström, Gustaf - 4062.
Uttley, K. H. - 3159, 4239.

-V-

Vadakin, James C. - 2406.
Vagács, András - 1085.
Valle, Carlo della - 3511.
Valaoras, Vasilios G. - 4083.
Valensin, G. - 3432.
Valov, V. S. - 1091.
Van Alstyne, Carol - 2290.
Van As, J. B. - 2420.
Van Campen, Joseph - 4482.
Vance, James E., Jr. - 4125.
Vanderhill, Burke G. - 1415.
Varlamov, V. S. - 1091.
Varma, D. R. - 3238.
Varpela, E. - 2188.
Vaumas, Etienne de - 4101.
Vavra, Zdenek - 1022, 2018, 3140.
Vegas Pérez, A. - 3019.
Velardo, Joseph T. - 3239.
Venezuela. Dirección General de Estadística y Censos Nacionales - 2535, 3549.
Venezuela. Dirección General de Estadística y Censos Nacionales. Oficina Central del Censo - 3500.
Venezuela. División de Epidemiología y Estadística Vital - 3475.
Vennetier, P. - 3088.
Venstra, A. J. - 1290, 4532.
Vereinigung Österreichischer Industrieller - 4173.
Vernon, Raymond - 2108.
Vernon, Stanley H. - 4272.
Verrière, Louis - 1351.
Verwey-Jonker, H. - 2249.
Veyret-Verner, Germaine - 2088.
Vialatoux, J. - 2028.
Vianès, S. - 2318.
Vidal, Jorge - 3514.
Vielrose, Egon - 4063, 4207.
Viet, Jean - 4547.
Vietnam Advisory Group, Saigon. Field Administration Division - 2247.
Viet-Nam. Bô Kinh-tê Quôc-gia. Viên Quôc-gia Thông-kê. Secrétariat d'Etat à l'Economie Nationale. Institut Nationale de la Statistique. [State Secretariat for the National Economy. National Institute of Statistics] - 1552, 3590, 3591, 4607, 4608.
Viet-Nam. Institut National de la Statistique. See above.
Viet-Nam. Viên Quôc-Gia Thông Kê [National Institute of Statistics]. See above.
Vignaud, C. - 1088.
Vildosola, Jerjes - 4244.
Villa Rodríguez, Luciano de la - 4260.
Villar Salinas, J. - 3019.
Villard, Henry H. - 4399.
Vimont, Claude - 4420.
Vining, Rutledge - 3506.
Vinnikov, V. R. - 3076.
Vinyard, John H., Jr. - 4194.
Voborník, Bohumil - 1405, 2029, 4435.
Vöchting, F. - 2263.
Vogelnik, Dolfe - 1379, 2136, 3118, 3280.
Vogt, Johan - 1023.
Vorob'ev, V. V. - 1091.
Voronkov, I. A. - 1047.
Vostrikova, A. - 1459.
Votrubec, C. - 2121.
Vox Guyane - 3065.
Vukovich, György - 1024, 3516.
Vuorjoki, Yrjö - 3119.
Vural, I. L. - 2189.
Vysušilová, Dagmar - 1151, 1157, 1510, 4319.
Vytlacil, J. - 1460.

-W-

Waddington, C. H. - 4042.
Wade, Richard C. - 1048.
Wadia, Pestonji A. - 3341.
Wales, Hugh G. - 2115.
Walker, A. R. - 2190.
Wallace, Henry A. - 3411.
Wallace, H. M. - 3130, 3131.
Waller, R. E. - 3189.
Wallner, Ernö - 1049.
Walrath, Arthur J. - 2103.
Wang, Nai-chi - 4152.
Wang Tcho - 2030.
Ward, R. Gerard - 1073.
Warkentin, John - 1269.
Warntz, William - 1387.
Warren, George L. - 1267, 3269.
Watanabe, Sadamu - 1137.
Watson, William - 1272.

Wattal, Pyare K. - 1074.
Weaver, Robert C. - 2261, 3089.
Webb, John W. - 4126.
Webber, I. L. - 2509, 2510.
Webbink, Gladys F. - 2274.
Weiler, H. - 2275.
Weill-Hallé, Lagroua - 2223.
Weinstein, Karol K. - 4277, 4278.
Weisel, D. von - 2407.
Weiss, Eric J. - 4352.
Welford, A. T. - 2285.
Wełpa, Bogusław - 3295, 3326.
Welsenes, C. van - 4532.
Wendling, Aubrey - 1394.
Wenner-Gren Foundation for Anthropological Research - 3536.
Western Samoa (N. Z. Adm.) [Census Commission.] - 2583.
Westoff, Charles F. - 4043.
Whelpton, P. K. - 3541.
White, Gilbert F. - 2116.
Whitelaw, M. James - 4250.
Whitney, Vincent H. - 4133.
Wiarda Beckman Stichting. [Wiarda Beckman Foundation.] - 4102.
Wibberley, G. P. - 4388.
Widstam, Ture - 4230.
Wiesler, Hans - 2058, 4084.
Wilbur, George L. - 1118.
Wildner, G. P. - 1198.
Wilkinson, Thomas O. - 4428.
Williams, George C. - 3415.
Williams, Roger J. - 4044.
Williamson, Robert C. - 1075.
Willie, Charles V. - 3396.
Wilson, J. M. - 2191.
Wilson, Monica - 1345.
Windle, Charles - 1461.
Winkler, Wilhelm - 4008, 4016.
Winnie, William W., Jr. - 4373.
Winsborough, Hal H. - 2495.
Winsemius, J. - 4532.
Wisconsin County Boards Association - 4446.
Witthauer, Kurt - 1119, 3242.
Witwatersrand Native Labour Association - 2241.
Wohlzogen, F. X. - 3234.
Wolf, Ernst - 2230.
Wolfbein, Seymour L. - 2354, 3515.
Wolff, Kurt - 2383.
Wolinska, H. - 4469.
Wolkowitsch, Maurice - 2239.
Woolmington, Eric - 2431.
World Health Organization - 1199, 1443, 2192, 2461, 3476, 3603, 4240, 4500, 4620.
World Health Organization. Expert Committee on Radiation - 3416.
World Health Organization. Regional Office for South-East Asia - 3477.
World Jewish Congress - 3537.
Wright, Catherine H. - 3314.
Wrong, Dennis H. - 3206.
Wu, Eugene - 3528.
Wyffels, A. - 3043.
Wynder, Ernest L. - 3160.
Wynnyczuk, Vl. - 2070, 3254, 4296.
Wyoming. State Department of Education - 2288.
Wyon, John B. - 4525.

-Y-

Yamaguchi, Kiichi - 4127.
Yamamoto, George K. - 1250.
Yankauer, Alfred - 2384.
Yasa, Ibrahim - 1082.
Yates, R. J. - 4377.
Yen, C. C. - 1138.
Yercaris, Constantine A. - 2202.
Yntema, L. - 1139.
You Poh Seng - 3501.
Young, Robert W. - 4372.
Yugoslavia. Croatia. Zavod za Statistiku - 1534.
Yugoslavia. Savezni Zavod za Narodno Zdravlje - 3581.
Yugoslavia. Savezni Zavod za Statistiku- 1533, 3517, 3580, 4586-4588.
Yugoslavia. Slovenia. Zavod za Statistiko - 2117.

-Z-

Zabelin, N. N. - 3376.
Zachariah, K. C. - 4513.
Zalokar, J. B. - 4216.
Zangarelli, Piero - 1216.
Zarkovich, S. S. - 2465.
Zatko, James J. - 4362.
Zawistowicz-Adamska, Kzimiera - 1050.
Zeisel, Joseph - 4566.
Zelditch, Morris, Jr. - 1251.
Zenkoku Takushoku Nogyo Kyodo-kumiai Rengokai - 2265.
Ziemkiewicz, W. - 4501.
Zimmerman, Anthony - 2031.
Ziołkowski, Janusz - 2089.
Zitter, Meyer - 1465, 1466.
Zopfy, Franz - 1276.
Zrimec, Stane - 3517.
Zubrzycki, J. - 2369, 4307.